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English: Poetry

A L E A D Academy						
Remains by Simon Armitage		Exposure by Wilfred Owen		Poppies by Jane Weir	Poppies by Jane Weir	
Themes: Conflict, Suffering, Reality of War	Tones: Tragic, Haunting, Anecdotal	Themes: Conflict, Suffering, Nature, Reality of War, Patrio	otism Tones: Tragic, Haunting, Dreamy	Themes: Bravery, Reality of War, Suffering, Childhood	Tones: Tender, Tragic, Dreamy, Bitter	
Content, Meaning and Purpose -Written to coincide with a TV documentary about those returning from war with PTSD. Based on Guardsman Tromans, who fought in Iraq in 2003. -Speaker describes shooting a looter dead in Iraq and how it has affected him. -To show the reader that mental suffering can persist long after physical conflict is over.	Context -"These are poems of survivors – the damaged, exhausted men who return from war in body but never, wholly, in mind." Simon Armitage -Poem coincided with increased awareness of PTSD amongst the military, and aroused sympathy amongst the public – many of whom were opposed to the war.	Content, Meaning and Purpose -Speaker describes war as a battle against the weather and conditionsImagery of cold and warm reflect the delusional mind of a man dying from hypothermiaOwen wanted to draw attention to the suffering, monotony and futility of war.	Context -Written in 1917 before Owen went on to win the Military Cross for bravery, and was then killed in in 1918: the poem has authenticity as it is written an actual soldier. - Of his work, Owen said: "My theme is war and pity of war". - Despite highlighting the tragedy of war and mis of senior commanders, he had a deep sense of of "not loath, we lie out here" shows that he was bitter about his suffering.	battle in by interpretation of bravery in conflict: it does not focus on a soldier in battle but on the mother who is left behind and must cope with his deathThe narration covers her visit to a war memorial, interspersed with images of the soldier's childhood takes uty:	Context -Set around the time of the Iraq and Afghan wars, but the conflict is deliberately ambiguous to give the poem a timeless relevance to all mothers and familiesThere are hints of a critical tone; about how soldiers can become intoxicated by the glamour or the military: "a blockade of yellow bias" and "intoxicated".	
Language -"Remains" - the images and suffering remain. -"Legs it up the road" - colloquial language = authentic voice -"Then he's carted off in the back of a lorry" - reduction of humanity to waste or cattle -"he's here in my head when I close my eyes / dug in behind enemy lines" - metaphor for a war in his head; the PTSD is entrenched. -"his bloody life in my bloody hands" - alludes to Macbeth: Macbeth the warrior with PTSD and Lady Macbeth's bloody hands and guilt.	Form and Structure -Monologue, told in the present tense to convey a flashback (a symptom of PTSD). -First four stanzas are set in Iraq; last three are at home, showing the aftermath. -Enjambment between lines and stanzas conveys his conversational tone and gives it a fast pace, especially when conveying the horror of the killing -Repetition of 'Probably armed, Possibly not' conveys guilt and bitterness.	Language -"Our brains ache" physical (cold) suffering and mental (PTSD or shell shock) sufferingSemantic field of weather: weather is the enemy"the merciless iced east winds that knive us" — personification (cruel and murderous wind); sibilance (cutting/slicing sound of wind); ellipsis (never-ending)Repetition of pronouns 'we' and 'our' — conveys togetherness and collective suffering of soldiers'mad gusts tugging on the wire' — personification	Form and Structure -Contrast of Cold>Warm>Cold imagery coveys Suffering>Delusions>Death of the hypothermic -Repetition of "but nothing happens" creates ci structure implying never ending suffering -Rhyme scheme ABBA and hexameter gives the structure and emphasises the monotonyPararhymes (half rhymes) ("nervous / knife us' barely hold the poem together, like the men.	war/injury ("blockade", bandaged", "reinforcements") -Aural (sound) imagery: "All my words flattened, rolled, turned into felt" shows pain and inability to speak, and "I listened, hoping to hear	Form and Structure -This is an Elegy, a poem of mourning. -Strong sense of form despite the free verse, stream of consciousness addressing her son directly – poignant -No rhyme scheme makes it melancholic -Enjambment gives it an anecdotal tone. -Nearly half the lines have caesura – she is trying to hold it together, but can't speak fluently as she is breaking inside. -Rich texture of time shifts, and visual, aural and touch imagery.	
Charge of the Light Brigade by Alfred, Lord To	ennyson	Bayonet Charge by Ted Hughes		War Photographer		
Themes: Conflict, Suffering, Reality of War, Patriotism	Tones: Energetic, Tragic, Haunting	Themes: Conflict, Power, Reality of War, Nature, Bravery		earny Themes: Conflict, Suffering, Reality of War	Tones: Painful, Detached, Angry	
	Fair 1 6 1 10 10 10 10 10 10 10 10 10 10 10 10 1		Patriotism Tones: Bewildered, Desperate, Dr. Context -Published in 1957, but most-likely set in World -Hughes' father had survived the battle of Gallip World War 1, and so he may have wished to dra attention to the hardships of trench warfare. -He draws a contrast between the idealism of patriotism and the reality of fighting and killing. honour, human dignity, etcetera") Form and Structure	teamy Themes: Conflict, Suffering, Reality of War Content, Meaning and Purpose "Tells the story of a war photographer developing photos at home in England: as a photo develops he begins to remember the horrors of war – painting a contrast to the safety of his dark room. "He appears to be returning to a warzone at the end of	Tones: Painful, Detached, Angry Context -like Tennyson and Ted Hughes, Duffy was the Poet Laureate. -Duffy was inspired to write this poem by her friendship with a war photographer. She was intrigued by the challenge faced by these people whose job requires them to record terrible, horrific events without being able to directly help their subjects. -The location is ambiguous and therefore universal: ("Belfast. Beirut. Phnom Penh.")	



English: Poetry

A I F A D Academy					
Kamikaze by Beatrice Garland		The Emigree by Carol Rumens		Checking Out Me History by John Agard	
Themes: Conflict, Power, Patriotism, Shame, Nature, Chile	ildhood Tones: Sorrowful, Pitiful	Themes: Conflict, Power, Identity, Protest, Bravery, Childh	dhood Tones: Mournful, Defiant, Nostalgic	Themes: Power, Protest, Identity, Childhood	Tones: Defiant, Angry, Rebellious, Cynical
Content, Meaning and Purpose -In World War 2, Japanese Kamikaze pilots would fly manned missiles into targets such as shipsThis poem explores a kamikaze pilot's journey towards battle, his decision to return, and how he is shunned when he returns homeAs he looks down at the sea, the beauty of nature and memories of childhood make him decide to turn back.	Context -Cowardice or surrender was a great shame in wartime Japan. -To surrender meant shame for you and your family, and rejection by society: "he must have wondered which had been the better way to die".	Content, Meaning and Purpose -'Emigree' – a female who is forced to leave their county for political or social reasonsThe speaker describes her memories of a home city that she was forced to flee. The city is now "sick with tyrants"Despite the cities problems, her positive memories of the place cannot be extinguished.	Context -Emigree was published in 1993. The home country of the speaker is not revealed – this ambiguity gives the poem a timeless relevanceIncreasingly relevant to many people in current world climate	Content, Meaning and Purpose -Represents the voice of a black man who is frustrated by the Eurocentric history curriculum in the UK – which pays little attention to the black history. -Black history is quoted to emphasise its separateness and to stress its importance.	Context -John Agard was born in the Caribbean in 1949 and moved to the UK in the 1970s. -His poetry challenge racism and prejudice. -This poem may, to some extent, have achieved its purpose: in 2016, a statue was erected in London in honour of Mary Seacole, one of the subjects of the poem.
Language -The Japanese word 'kamikaze' means 'divine wind' or 'heavenly wind', and has its origin in a heaven-sent storm that scattered an invading fleet in 1250. -"dark shoals of fish flashing silver": image links to a Samurai sword – conveys the conflict between his love for nature/life and his sense of duty. Also has sibilance. - "they treated him as though he no longer existed": cruel irony – he chose to live but now must live as though he is dead. -"was no longer the father we loved": the pilot was forever affected by his decision.	Form and Structure -Narrative and speaker is third person, representing the distance between her and her father, and his rejection by society. -The first five stanzas are ordered (whilst he is flying on his set mission). -Only full stop is at the end of Stanza Five: he has made his decision to turn back. -The final two are in italics and have longer line to represent the fallout of his decision: his life has shifted and will no longer be the same. -Direct speech ("My mother never spoke again") gives the poem a personal tone.	of light - it will stay with her forever.	Form and Structure -First personThe last line of each stanza is the same (epistrophe): "sunlight": reinforces the overriding positivity of the city and of the poemThe first two stanzas have lots of enjambment — conveys freedom. The final stanza has lots of full-stops — conveys that fact that she is now trapped.	Language -Imagery of fire and light used in all three stanzas regarding black historic figures: "Toussaint de beacon", "Fire-woman", "yellow sunrise"Uses non-standard phonetic spelling ("Dem tell me wha dem want", to represent his own powerful accent and mixes Caribbean Creole dialect with standard English"I carving out me identity": metaphor for the painful struggle to be heard, and to find his identity.	Form -Dramatic monologue, with a dual structureStanzas concerning Eurocentric history (normal font) are interspersed with stanzas on black history (in italics to represent separateness and rebellion). - Black history sections arranged as serious lessons to be learned; traditional history as nursery rhymes, mixed with fairytales (mocking of traditional history). - The lack of punctuation, the stanzas in free verse, the irregular rhyme scheme and the use of Creole could represent the narrator's rejection of the rules. -Repetition of "Dem tell me": frustration.
Ozymandias by Percy Bysshe Shelley		My Last Duchess by Robert Browning		Tissue by Imtiaz Dharker	
Themes: Power of Nature, Decay, Pride	Tones: Ironic, rebellious	Themes: Power, Pride, Control, Jealousy, Status	Tones: Sinister, Bitter, Angry	Themes: Power of Nature, Control, Identity Tones: Gentle, Flowing, Ethereal	
-The statue was of a long forgotten ancient King: the arrogant Ozymandias, "king of kings." -The poem is ironic and one big metaphor: Human power is only temporary – the statue now lays	Context -Shelley was a poet of the 'Romantic period' (late 1700s and early 1800s). Romantic poets were interested in emotion and the power of natureShelley also disliked the concept of a monarchy and the oppression of ordinary peopleHe had been inspired by the French revolution – when the French monarchy was overthrown.	Content, Meaning and Purpose -The Duke is showing a visitor around his large art collection and proudly points out a portrait of his last wife, who is now dead. He reveals that he was annoyed by her over-friendly and flirtatious behaviour. -He can finally control her by objectifying her and showing her portrait to visitors when he chooses. - He is now alone as a result of his need for control. -The visitor has come to arrange the Duke's next marriage, and the Duke's story is a subtle warning about how he expects his next wife to behave. Language	Context -Browning was a British poet, and lived in Italy. The poem was published in 1842. -Browning may have been inspired by the story of an Italian Duke (Duke of Ferrara): his wife died in suspicious circumstances and it was rumoured that she had been poisoned. Form and Structure	Content, Meaning and Purpose -Two different meanings of Tissue' (homonyms) are explored: firstly, the various pieces of paper that control our lives (holy books, maps, grocery receipts); secondly, the tissue of a human body. -The poet explores the paradox that although paper is fragile, temporary and ultimately not important, we allow it to control our lives. -Also, although human life is much more precious, it is also fragile and temporary.	Context -Imtiaz Dharker was born in Pakistan and grew up in Glasgow. 'Tissue' is taken from a 2006 collection of poems entitles 'The Terrorist at My Table': the collection questions how well we know people around usThis particular poem also questions how well we understand ourselves and the fragility of humanity. Form and Structure
-'sneer of cold command': the king was arrogant, this has been recognised by the sculptor, the traveller and then the narrator'Look on my works, ye Mighty, and despair.': 'Look' = imperative, stressed syllable highlights commanding tone; ironic – he is telling other 'mighty' kings to admire the size of his statue and 'despair', however they should really despair because power is only temporary. 'The lone and level sands stretch far away.': the	-A sonnet (14 lines) but with an unconventional structure the structure is normal until a turning point (a volta) at Line 9 (these words appear). This reflects how human structures can be destroyed or decay. -The iambic pentameter rhyme scheme is also disrupted or decayed. -First eight lines (the octave) of the sonnet: the statue is described in parts to show its destruction. -Final two lines: the huge and immortal desert is described to emphasise the insignificance of human power and pride.	'Looking as if she was alive': sets a sinister tone. 'Will't please you sit and look at her?' rhetorical question to his visitor shows obsession with power. 'she liked whate'er / She looked on, and her looks went everywhere.': hints that his wife was a flirt. 'as if she ranked / My gift of a nine-hundred-years-old name / With anybody's gift': she was beneath him in status, and yet dared to rebel against his authority. -1 gave commands; Then all smiles stopped together': euphemism for his wife's murder. 'Notice Neptune, though / Taming a sea-horse': he points out another painting, also about control.	-Dramatic Monologue, in iambic pentameterIt is a speech, pretending to be a conversation – he doesn't allow the other person to speak! -Enjambment: rambling tone, he's getting carried away with his anger. He is a little unstableHeavy use of caesura (commas and dashes): stuttering effect shows his frustration and anger: 'She thanked men, – good! but thanked / Somehow – I know not how' -Dramatic Irony: the reader can read between the lines and see that the Duke's comments have a much more sinister undertone.	-Semantic field of light: ('Paper that lets light shine through', 'The sun shines through their borderlines', 'let the daylight break through capitals and monoliths') emphasises that light is central to life, a positive and powerful force that can break through 'tissue' and even monoliths (stone statues)'pages smoothed and stroked and turned': gentle verbs convey how important documents such as the Koran are treated with respect.	-The short stanzas create many layers, which is a key theme of the poem (layers of paper and the creation of human life through layers) -The lack of rhythm or rhyme creates an effect of freedom and opennessAll stanzas have four lines, except the final stanza which has one line ('turned into your skin'): this line focuses on humans, and addresses the reader directly to remind us that we are all fragile and temporary.



I F A D Academy						
Extract from The Prelude: Stealing the Boat by William Wordsworth		Storm on the Island by Seamus Heaney		London by William Blake		
Themes: Power of Nature, Fear, Childhood	Tones: Confident > Dark / Fearful > Reflective	Themes: Power of Nature, Fear	Tones: Dark, Violent, Anecdotal	Themes: Power, Inequality, Loss, Anger	Tones: Angry, Dark, Rebellious	
Content, Meaning and Purpose	Context	Content, Meaning and Purpose	Context	Content, Meaning and Purpose	Context	
-The story of a boy's love of nature and a night-time	-Published shortly after his death, The Prelude was a	-The narrator describes how a rural island community	-Seamus Heaney was Northern Irish, he died in 2013.	-The narrator is describing a walk around London and	-The poem was published in 1794, and time of great	
adventure in a rowing boat that instils a deeper and	very long poem (14 books) that told the story of	prepared for a coming storm, and how they were	-This poem was published in 1966 at the start of The	how he is saddened by the sights and sounds of	poverty is many parts of London.	
fearful respect for the power of nature.	William Wordsworth's life.	confident in their preparations.	Troubles' in Northern Ireland: a period of deep unrest	poverty.	-William Blake was an English poet and artist. Much of	
-At first, the boy is calm and confident, but the sight of	-This extract is the first part of a book entitled	-When the storm hits, they are shocked by its power:	and violence between those who wanted to remain	-The poem also addresses the loss of innocence and	his work was influenced by his radical political views:	
a huge mountain that comes into view scares the boy	'Introduction – Childhood and School-Time'.	its violent sights and sounds are described, using the	part of the UK and those who wanted to become part	the determinism of inequality: how new-born infants	he believed in social and racial equality.	
and he flees back to the shore.	-Like Percy Shelley, Wordsworth was a romantic poet	metaphor of war.	of Ireland.	are born into poverty.	-This poem is part of the 'Songs of Experience'	
-He is now in awe of the mountain and now fearful of	and so his poetry explores themes of nature, human	-The final line of the poem reveals their fear of	-The first eight letters of the title spell 'Stormont': this	-The poem uses rhetoric (persuasive techniques) to	collection, which focuses on how innocence is lost and	
the power of nature which are described as 'huge and	emotion and how humans are shaped by their	nature's power	is the name of Northern Ireland's parliament. The	convince the reader that the people in power	society is corrupt.	
mighty forms, that do not live like living men.'	interaction with nature.		poem might be a metaphor for the political storm that	(landowners, Church, Government) are to blame for	-He also questioned the teachings of the Church and	
-We should respect nature and not take it for granted.			was building in the country at the time.	this inequality.	the decisions of Government.	
Language	Form and Structure	Language	Form and Structure	Language	Form and Structure	
-'One summer evening (led by her)': 'her' might be	-First person narrative – creates a sense that it is a	-'Nor are there trees which might prove company':	-Written in blank verse and with lots of enjambment:	-Sensory language creates an immersive effect: visual	-A dramatic monologue, there is a first-person narrator	
nature personified – this shows his love for nature.	personal poem. The requires that the and anismbment add to the effect.	the island is a lonely, barren place. -Violent verbs are used to describe the storm:	this creates a conversational and anecdotal tone.	imagery ('Marks of weakness, marks of woe') and	(1) who speaks passionately about what he sees.	
-'an act of stealth / And troubled pleasure': confident,	-The regular rhythm and enjambment add to the effect		-'We' (first person plural) creates a sense of	aural imagery ('cry of every man')	-Simple ABAB rhyme scheme: reflects the unrelenting	
but the oxymoron suggests he knows it's wrong; forebodes the troubling events that follow.	of natural speech and a personal voice. -The extract can be split into three sections, each with	'pummels', 'exploding', 'spits'Semantic field of war: 'Exploding comfortably' (also	community, and 'You' (direct address) makes the reader feel immersed in the experience.	 'mind-forged manacles': they are trapped in poverty. Rhetorical devices to persuade: repetition ('In 	misery of the city, and perhaps the rhythm of his feet as he trudges around the city.	
-'nothing but the stars and grey sky': emptiness of sky.	a different tone to reflect his shifting mood:	an oxymoron to contrast fear/safety); 'wind dives and	-The poem can split into three sections:	every'); emotive language ('infant's cry of fear').	-First two stanzas focus on people; third stanza focuses	
- 'the horizon's bound, a huge peak, black and huge':	Lines 1-20: (rowing) carefree and confident	strafes invisibly' (the wind is a fighter plane); 'We are	Confidence: 'We are prepared:' (ironic)	-Criticises the powerful: 'each chartered street' –	on the institutions he holds responsible; fourth stanza	
the image of the mountain is more shocking (contrast).	Lines 21-31: (the mountain appears) dark and fearful	bombarded by the empty air' (under ceaseless attack).	The violence of the storm: 'It pummels your house'	everything is owned by the rich; 'Every black'ning	returns to the people – they are the central focus.	
-'Upreared its head' and 'measured motion like a	Lines 32-44: (following days) reflective and troubled	This also reinforces the metaphor of war / troubles.	Fear: 'It is a huge nothing that we fear.'	church appais' - the church is corrupt; 'the hapless	returns to the people - they are the central locus.	
living thing': the mountain is personified as a powerful	-Contrasts in tone: 'lustily I dipped my oars into the	-'spits like a tame cat turned savage': simile compares	-There is a turning point (a volta) in Line 14: 'But no:'.	soldier's sigh / Runs in blood down palace walls' -		
beast, but calm - contrasts with his own inferior panic.	silent lake' versus 'I struck and struck again' and 'with	the nature to an animal that has turned on its owner.	This monosyllabic phrase, and the caesura, reflects the	soldier's suffer and die due to the decisions of those in		
beast, but calm – contrasts with his own inferior panic. -'There hung a darkness': lasting effects of mountain.	silent lake' versus 'I struck and struck again' and 'with trembling oars I turned'.	the nature to an animal that has turned on its owner.	This monosyllabic phrase, and the caesura, reflects the final calm before the storm.	soldier's suffer and die due to the decisions of those in power, who themselves live in palaces.		
	trembling oars I turned'.	the nature to an animal that has turned on its owner. Language for comparison		power, who themselves live in palaces. Poetic Techniques		
-'There hung a darkness': lasting effects of mountain. Key themes and connections: poems	trembling oars I turned'.		final calm before the storm.	power, who themselves live in palaces. Poetic Techniques LANGUAGE	STRUCTURE	
There hung a darkness': lasting effects of mountain. Key themes and connections: poems	trembling oars I turned'.		final calm before the storm. Assessment Objectives	Poetic Techniques LANGUAGE Metaphor – comparing one thing to another	Stanza – a group of lines in a poem.	
-There hung a darkness': lasting effects of mountain. Key themes and connections: poems Decay	that you might choose to compare	Language for comparison When poems have similarities	final calm before the storm. Assessment Objectives Ensure that your answer covers all of these	power, who themselves live in palaces. Poetic Techniques LANGUAGE Metaphor – comparing one thing to another Simile – comparing two things with 'like' or 'as'	Stanza – a group of lines in a poem. Repetition – repeated words or phrases	
There hung a darkness': lasting effects of mountain. Key themes and connections: poems Pride and Power Tos	that you might choose to compare Power of Nature	Language for comparison When poems have similarities Similarly,	final calm before the storm. Assessment Objectives Ensure that your answer covers all of these areas: A01	power, who themselves live in palaces. Poetic Techniques LANGUAGE Metaphor – comparing one thing to another Simile – comparing two things with 'like' or 'as' Personification – giving human qualities to the non-	Stanza – a group of lines in a poem. Repetition – repeated words or phrases Enjambment – a sentence or phrase that runs onto the	
There hung a darkness': lasting effects of mountain. Key themes and connections: poems Decay	that you might choose to compare Power of Nature Storm on the Island	Language for comparison When poems have similarities Similarly, Both poems convey / address	final calm before the storm. Assessment Objectives Ensure that your answer covers all of these areas: A01 • Write a response related to the key word in	power, who themselves live in palaces. Poetic Techniques LANGUAGE Metaphor – comparing one thing to another Simile – comparing two things with 'like' or 'as' Personification – giving human qualities to the non-human	Stanza – a group of lines in a poem. Repetition – repeated words or phrases Enjambment – a sentence or phrase that runs onto the next line.	
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There hung a darkness': lasting effects of mountain. Key themes and connections: poems Pride and Power of Man Ozymandas My Last Duchess	that you might choose to compare Power of Nature Storm on the Island Extract from The Prejude	Language for comparison When poems have similarities Similarly, Both poems convey / address	final calm before the storm. Assessment Objectives Ensure that your answer covers all of these areas: AO1 Write a response related to the key word in the question. Use comparative language to explore both	power, who themselves live in palaces. Poetic Techniques LANGUAGE Metaphor – comparing one thing to another Simile – comparing two things with 'like' or 'as' Personification – giving human qualities to the non-human Imagery – language that makes us imagine a sight (visual), sound (aural), touch (tactile), smell or taste.	Stanza – a group of lines in a poem. Repetition – repeated words or phrases Enjambment – a sentence or phrase that runs onto the next line. Caesura – using punctuation to create pauses or stops. Contrast – opposite concepts/feelings in a poem.	
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There hung a darkness': lasting effects of mountain. Key themes and connections: poems Pride and Power of Man Ozymandas My Last Duchess	that you might choose to compare Power of Nature Storm on the Island Extract from The Prelude Feor	Language for comparison When poems have similarities Similarly, Both poems convey / address Both poets explore / present This idea is also explored in In a similar way,	final calm before the storm. Assessment Objectives Ensure that your answer covers all of these areas: AO1 Write a response related to the key word in the question. Use comparative language to explore both poems. Use a range of evidence to support your	power, who themselves live in palaces. Poetic Techniques LANGUAGE Metaphor – comparing one thing to another Simile – comparing two things with 'like' or 'as' Personification – giving human qualities to the non-human Imagery – language that makes us imagine a sight (visual), sound (aural), touch (tactile), smell or taste. Tone – the mood or feeling created in a poem. Pathetic Fallacy – giving emotion to weather in order	Stanza – a group of lines in a poem. Repetition – repeated words or phrases Enjambment – a sentence or phrase that runs onto the next line. Caesura – using punctuation to create pauses or stops. Contrast – opposite concepts/feelings in a poem. Juxtaposition – contrasting things placed side by side. Oxymoron – a phrase that contradicts itself.	
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There hung a darkness': lasting effects of mountain. Key themes and connections: poems Decay Pride and Power of Man Ozymandas My Last Duchess Eamikaze Bravery	that you might choose to compare Power of Nature Storm on the Island Extract from The Prelude Feor	Language for comparison When poems have similarities Similarly, Both poems convey / address Both poets explore / present This idea is also explored in In a similar way, Likewise,	final calm before the storm. Assessment Objectives Ensure that your answer covers all of these areas: AO1 Write a response related to the key word in the question. Use comparative language to explore both poems. Use a range of evidence to support your response and to show the meaning of the poems.	power, who themselves live in palaces. Poetic Techniques LANGUAGE Metaphor – comparing one thing to another Simile – comparing two things with 'like' or 'as' Personification – giving human qualities to the non- human Imagery – language that makes us imagine a sight (visual), sound (aural), touch (tactile), smell or taste. Tone – the mood or feeling created in a poem. Pathetic Fallacy – giving emotion to weather in order to create a mood within a text. Irony – language that says one thing but implies the	Stanza – a group of lines in a poem. Repetition – repeated words or phrases Enjambment – a sentence or phrase that runs onto the next line. Caesura – using punctuation to create pauses or stops. Contrast – opposite concepts/feelings in a poem. Juxtaposition – contrasting things placed side by side. Oxymoron – a phrase that contradicts itself. Anaphora – when the first word of a stanza is the same across different stanzas.	
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On the contrary, ...

Unlike...

Comment on the historical context - when

was the poem published and what impact

might it have had then, and today?

Consonance - repetition of consonant sounds.

Plosives - short burst of sound: t, k, p, d, g, or b sound.

Rhyming couplet - a pair of rhyming lines next to each

Meter - arrangement of stressed/unstressed syllables.

Monologue - one person speaking for a long time.

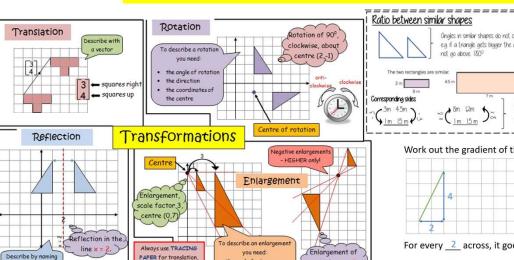
Suffering

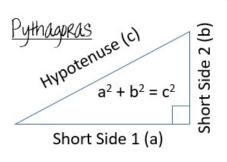
iUnits are important

When using a ratio — all parts should be in the same units

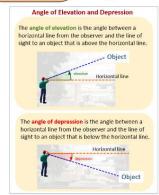


Mathematics

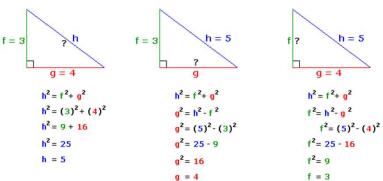


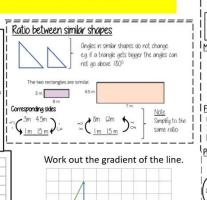


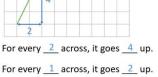
reflection & rotation.



- scale factor -2

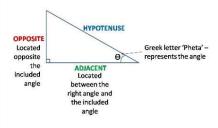




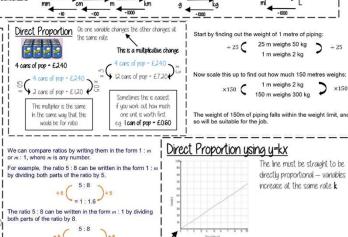


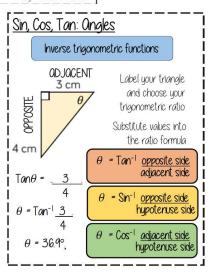
The gradient of the line is _2

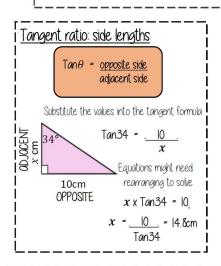
Trigonometry



Sharing a whole into a given ratio James and Lucy share £350 in the ratio 3.4 Work out how much each person earns Model the Question James: Lucy 3:4 Lucy Find the value of one part £350 - 7 - £50 Whole: £350 - one part 7 parts to share between (3 James, 4 Lucu) Put back into the question James = 3 x £50 = £150 James Lucy (x 50 3:4 x 50 £ 150:£2004 Lucy = 4 x £50 = £200





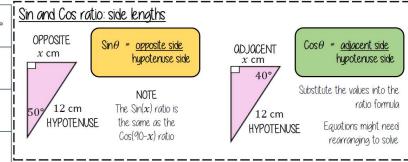


Direct proportion graphs always start at (0,0) as they are

describing relationships between two variables

Exact Trig Values

	0°	30°	45°	60°	90°
sin	0	$\frac{1}{2}$	$\frac{1}{\sqrt{2}}$	$\frac{\sqrt{3}}{2}$	1
cos	1	$\frac{\sqrt{3}}{2}$	$\frac{1}{\sqrt{2}}$	$\frac{1}{2}$	0
tan	0	$\frac{1}{\sqrt{3}}$	1	$\sqrt{3}$	-





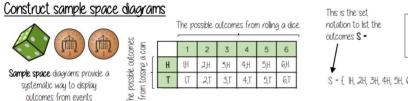
The probability of throwing two 3s.

6 36

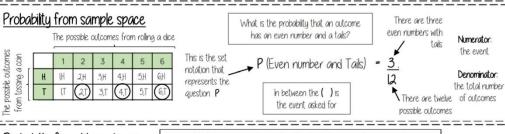
36 36

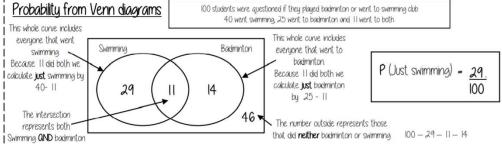
 $P(33) = \frac{1}{6} \times \frac{1}{6} = \frac{1}{36}$

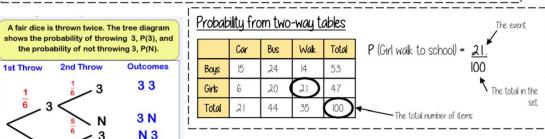
Mathematics



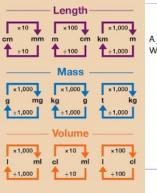




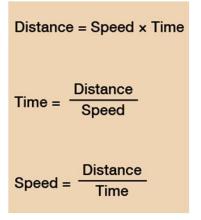


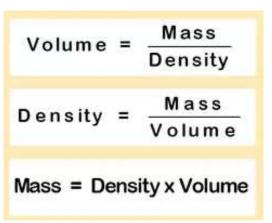


U			
` N	NN	Independent Events	The outcome of a previous event does not influence/affect the outcome of a second
ving two 3s	3.		event.
		Dependent	The outcome of a previous event does
wing one 3.		Events	influence/affect the outcome of a second
	r P(N3) = 5 10		event.

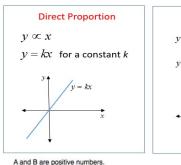


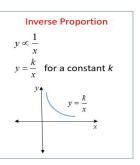


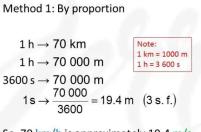




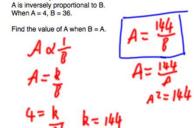
Example 1: Convert 70 km/h to m/s

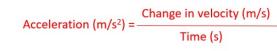






So, 70 km/h is approximately 19.4 m/s





Da Vinci Academy A L.E.A.D. Academy

Mathematics

Linear Seguences

In an arithmetic sequence, the terms increase (or decrease) by a fixed number called the

The *n*th term of an arithmetic sequence = common difference \times *n* + zero term

Key point 10

Key point 11

- a Work out the *n*th term of the sequence 3, 7, 11, 15, ... b Is 45 a term of the sequence?
- 4n 4, 8, 12, 16, ...

The *n*th term is 4n - 1.

b 45 = 4n - 146 = 4n11.5 = n

Write an equation using the nth term and solve it.

The common difference is 4. Write out the first

five terms of the sequence for 4n, the multiples

of 4. Work out how to get from each term in 4n

45 cannot be in the sequence because 11.5 is not an integer.

Exam-style question

Here are the first five terms of an arithmetic sequence. 3, 9, 15, 21, 27

Exam hint

because ...

Explain means show your

working, then answer the question with either:

Yes, Ben is correct

No. Ben is not correct

- a Find an expression, in terms of n, for the nth term of this sequence. (2 marks)
- **b** Ben says that 150 is in the sequence. Is Ben right? Explain your answer.

(1 mark)

sum of the previous

Non-Linear Sequences

Geometric Sequences

Key point 13

In a Fibonacci type sequence the next number is found by adding the previous two numbers together. e.g. 1, 1, 2, 3, 5, 8, 13, 21, ... is a Fibonacci type sequence because 1 + 1 = 2, 1 + 2 = 3, 2 + 3 = 5 and so on.

Fibonacci Sequence

to the term in the sequence.

Quadratic Sequiences

Key point 14

In an **geometric sequence** the terms increase (or decrease) by a **constant multiplier**.

Key point 15

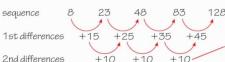
A **quadratic sequence** has n^2 and no higher power of n in its nth term.

Key point 16

The second differences of a quadratic sequence, $u_n = an^2 + bn + c$, are constant and equal to 2a.

Example 4

Find a formula for the nth term of the sequence 8, 23, 48, 83, 128, ...



Work out the second differences.

Halve the second difference to

So $a = 10 \div 2 = 5$

The formula has a $5n^2$ term in it.

The nth term is $5n^2 + 3$

5 <i>n</i> ²	5	20	45	80	125
Sequence	8	23	48	83	128

Compare the given sequence with $5n^2$.

find the coefficient of n^2 .

The numbers in the second row are 3 more than those in the first row.

1 Other sequences

down the first four terms in

Fibonacci Sequence 1, 1, 2, 3, 5, 8 ... Triangular Numbers — look at the formation 1, 3, 6, 10, 15 ... Square Numbers — look at the formation Sequences are the repetition of a patten

Exam hint

The question refers to any two terms so no credit is given for just checking it out for particular numbers.

Direct and Indirect Proportion

The symbol \propto means 'is directly proportional to'. $y \propto x$ means y is directly proportional to x. In general if y is directly proportional to x,

where k is a number, called the **constant of proportionality**

Example 1

y is directly proportional to x. When y = 20, x = 8

- a Express y in terms of x.
- **b** Find x when y = 35.
- $y \propto x$ Write y is directly proportional to x, using the symbol \propto . So, y = kxWrite the equation using k. $20 = k \times 8$ Substitute y = 20 and x = 8. Solve to find k. y = 2.5x — Substitute the value of *k* back into the equation. $b 35 = 2.5 \times x$

Substitute y = 35 into y = 2.5x.

Key point 2

x = 14

A quantity can be directly proportional to the square, the cube, or the square root of another quantity. For example:

- If y is proportional to the square of x then $y \propto x^2$ and $y = kx^2$
- If y is proportional to the cube of x then $y \propto x^3$ and $y = kx^3$
- If y is proportional to the square root of x then $y \propto \sqrt{x}$ and $y = k\sqrt{x}$



Exam-style question

y is directly proportional to the square of x.

When x = 5, y = 150

Find the value of y when x = 3.

Reasoning Which graph shows variables in inverse proportion?







(4 marks)

y is inversely proportional to x. When y = 2, x = 3

- a Write a formula for y in terms of x. **b** Calculate the value of y when x = 8
- a $y \propto \frac{1}{\kappa}$ so $y = \frac{\kappa}{\kappa}$



h エアエニ 8 'n

Write y is inversely proportional to x using the \propto symbol. Then write the equation using k. Substitute y = 2 and x = 3. Solve to find k.

Substitute k back into the equation.

Substitute x = 8 into your formula.

Da Vinci Academy A L.E.A.D. Academy Remember an arc is part of the circumference i Orc lenath Orcumference of the whole circle = πd = $\pi \times 9 = 9\pi$ Orc length = $\frac{\theta}{360}$ ×circumference Perimeter Perimeter is the length around the outside of the shape This includes the arc length and the radii that encloses the shape Perimeter = $\frac{\theta}{360}$ ×circumference + 2rSurface area of a sphere Surface area = $4\pi r^2$

Radius = 5cm

 $-4 \times \pi \times 5^2$

= $4 \times \pi \times 25$

 $= 100\pi$

surface area

of a sphere

Surface area = $4\pi r^2$

 $-6\pi + 9$

(), hemisphere, has the curved surface QND a flat circular

face

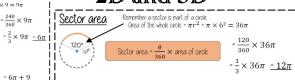
 $-100\pi \div 2 = 50\pi$

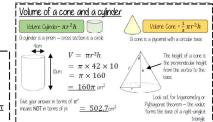
 $50\pi + \pi \times 5^2$

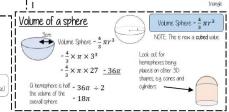
Hemisphere $=75\pi$

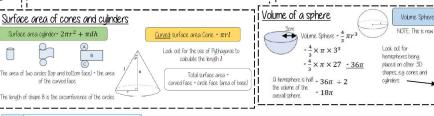
Mathematics

Circle Geometry 2D and 3D

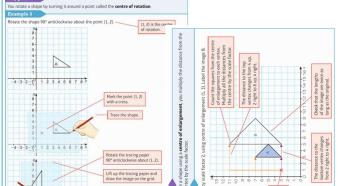




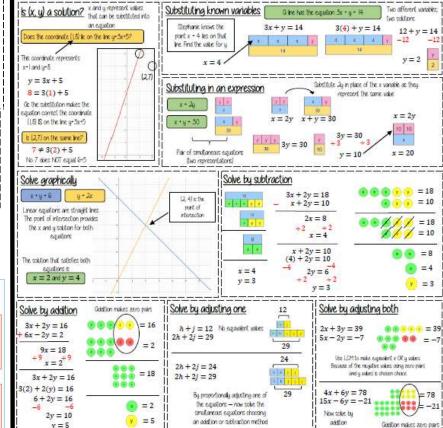




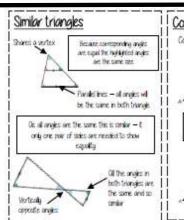
Transformations

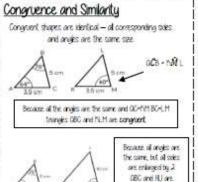


Simultaneous Equations

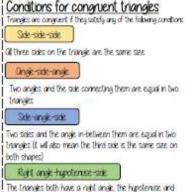


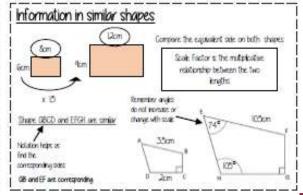
Similarity and Congruence

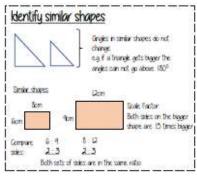




similar

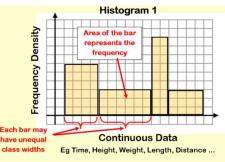


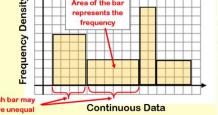




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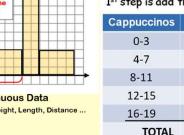
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Histogram 2

6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 Distance (miles)



Median - Cumulative Addition

1st step is add the extra column, and do Cumulative Addition.

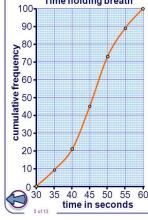
Cappuccinos	f	Cumulative f
0-3	2	2
4-7	3-	5
8-11	8-	13
12-15	3-	16
16-19	2-	18
TOTAL	18	

We add a new column where we do continual Totalling of the "f" Frequency values,

(Use Zig Zag Pattern)

The other step is to find the half-way frequency using (Total f + 1) / 2 = (18 + 1) / 2 = 9.5th position.

Plotting cumulative frequency graphs Time holding breath



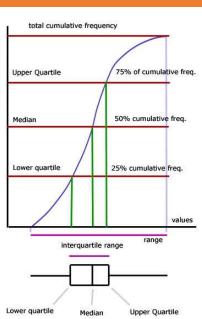
time in seconds	cumulative frequency
0 < t ≤ 35	9
0 < t ≤ 40	21
0 < t ≤ 45	45
0 < t ≤ 50	73
0 < t ≤ 55	89
0 < t ≤ 60	100

The cumulative frequency for each interval is plotted at the upper boundary for the interval.

The first point plotted is the lower boundary of the first class interval, which has cumulative frequency 0.



(board



Averages from Grouped Frequency Tables

The frequency table gives information about the times it took some office workers to get to the

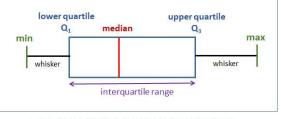
f you struggle to find the	1
midpoint, add the two	
numbers in the group	-
together and divide by 2	
Eg 20 + 30 = 50 ÷ 2 = 25	

	Time (t minutes	()	Frequency	fx
If you struggle to find the	0 < t ≤10	5	x 4	20
midpoint, add the two	10 < t ≤ 20	15	x 18	270
numbers in the group	20 < t ≤30	25	x 24	600
together and divide by 2	30 < t ≤40	35	x 16	560
Eg 20 + 30 = 50 ÷ 2 = 25	40 < t ≤50	45	x 6	270
	50 < t ≤60	55	x 12	660
Add up our fx and frequency colu	umns to find their total		80	2130

Multiplythe midpoints of each group by the frequency to fill our fx

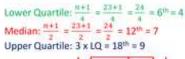
Box and Whisker Plot

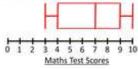
A box and whisker plot (also called a box plot) shows the fivenumber summary of a set of data: minimum, lower quartile, median, upper quartile, and maximum.



· Here are the maths test results of 23 male students:

3, 3, 3, 4, 4, 4, 5, 6, 6, 7, 7, 8, 8, 8, 8, 8, 9, 9, 9, 10, 10





The table shows information about the age of 80 teachers



The green bar represents

a frequency of 20

 $5 \times 4 = 20$

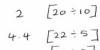
Age (years)	Frequency	F.d.
$20 < a \leqslant 30^{10}$	20	2
30 < a ≤ 35 ⁵	22	4.4
35 < a ≤ 40 ⁵	16	3.2
$40 < a \le 50^{\circ 0}$	13	1.3
$50 < a \leqslant 65$	9	0.6

Age (years)	Frequency		
$20 < a \leqslant 30^{10}$	20	2	20 -10
$30 < a \leqslant 35^5$	22	4.4	[22 - 5
$35 < a \leqslant 40^5$	16	3.2	[16 ÷ 5
$40 < a \leq 50^{\circ 0}$	13	1.3	[13-1
$50 < a \leqslant 65$	9	0.6	[9-11

The blue bar represents a

frequency of 6

 $2 \times 3 = 6$



$$3.2 \left[16 \div 5 \right]$$

Calculate an estimate for the mean average.

*NOTE - NEVER ADD UP YOUR MIDPOINTS!!!!!!

This means we know we must add an fx column at the end of our table and multiply our frequency with the midpoints of the groups......

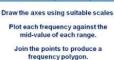
Finally, all we have to do is divide our fx total, by the frequency total to give us our estimate of the mean.....

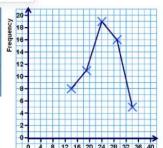
2130 ÷ 80 = 26.625 (Show your full calculator display and then round accurately if asked)

Frequency polygons allow us to display grouped data.

Example 1: A number of boxes of sweets were opened and the contents were counted. Draw a frequency polygon to Illustrate this data.

Frequency	Mid Value	Number of Sweets
8	14	12 - 16
11	19	17 - 21
19	24	22 - 26
16	29	27 - 31
5	34	32 - 36



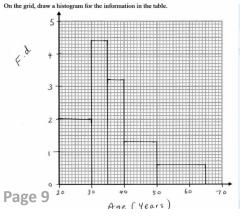


Capture, Recapture

$$\frac{N}{N} = \frac{m}{n}$$
 $N = \frac{N}{n}$

Nis the population size to be estimated.

M is the number of members of the population that are captured initially and tagged. n is the number of members of the population that are captured subsequently. m is the number of members of this subsequent captured population that are tagged.



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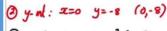
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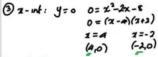
Sketch a fully labelled quadratic graph

Example (by factorising)

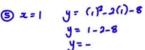
Sketch the graph with equation $y = x^2 - 2x - 8$

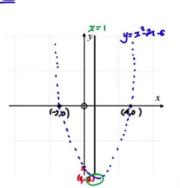


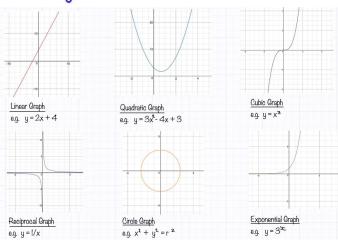




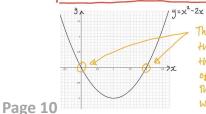








FINDING THE ROOTS OF A QUADRATIC FQUATION FROM A GRAPH

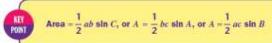


The x coordinates of The x-intercepts.

Cosine Rule 17 8 $a^2 = b^2 + c^2 - 2bcCosA$ 650 $b^2 + c^2 - a^2$ 14 2bc 10



	Finding Sides	Finding Angles
Cosine Rule	Need 2 sides and included angle	Need all 3 sides
Sine Rule	Need 2 angles and any side	Need 2 sides and an angle not included



Example

V300

100×53

= 1013

Find the area of this triangle.

Area =
$$\frac{1}{2}ab \sin C$$

= $\frac{1}{2} \times 14 \times 12 \times \sin 65$
= 76.13 cm^2

1. The area of the triangle is $\sqrt{300}$ cm²

(x + 3) cm

10/3 = = 20(20+3) × 13

20 = = 222+320

T2 + 32 -40 =0

(x+8) (x-5)=0

x=-8 x=5

nota solubon

√300 = ½ × (20+3) × 20 × 50160

then

c2 = b2+a2-2ba Cos C

= 89-40

C= 149

C = 7cm

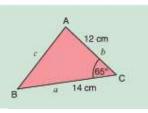
.: AB = 7cm

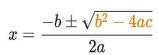
= 52+82-2x5x8 cost

=25+64 - 80×0.5

Calculate the length of AB.

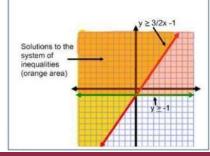
area = = absinc



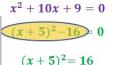


Systems of Inequalities Graph each inequality as shown above.

ONLY the area that is shaded by BOTH inequalities is the solution set (orange section)



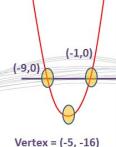
Complete the square on the following quadratic and sketch the graph

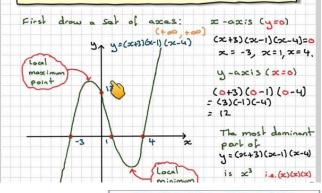


$$(x+5) = \pm \sqrt{16}$$

$$x = \pm \sqrt{16} - 5$$



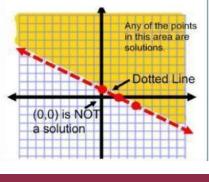




Graphing Inequalities in Two Variables

Graph for: y > -1/2x + 1

- 1. Graph y = -1/2x + 1, but dot the line since the symbol is >. The points on the line are not solutions.
- 2. Pick a point such as (0,0) and substitute it into the inequality. (0,0) is not a solution, therefore, shade the side of the line that does not contain (0,0).





the points on the curve that have a y coordinate of zero are called ROOTS where it cuts the oc-axis.

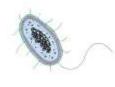


Infection and Response Knowledge Organiser - Foundation and Higher

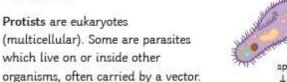
Communicable Disease

Pathogens are microorganisms that enter the body and cause communicable disease (infectious). Plants and animals can be infected by them.

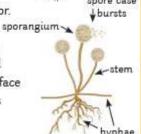
Bacteria are small cells that can reproduce very quickly in the body. They produce toxins that make you feel ill, damaging your cells and tissues.



Viruses are much smaller than bacteria; they can also reproduce quickly in the body. Viruses live inside your cell where they replicate. They then burst out of the cell, releasing new viruses.



Fungi are sometimes single celled, others have hyphae that grow and penetrate human skin and the surface of plants. They can produce spores which can spread to other plants.



How Pathogens Are Spread

Pathogens can be spread in many ways, for example:

Water - by drinking dirty water, e.g. cholera.

Air - carried by air and breathed in, e.g. influenza.

Direct contact - touching contaminated surfaces including the skin, e.g. athlete's foot.

Viral Diseases

Measles is spread by droplets of liquid from sneezes and coughs etc., symptoms include a red rash on the skin and a fever. Measles can be serious or even fatal, it can lead to pneumonia. Most people are vaccinated against measles when they are very young.

HIV is spread by sexual contact or exchanging body fluids. HIV can be controlled be antiviral drugs; this stops the viruses replicating. The virus attacks the cells in the immune system. If the immune system is badly damaged, the body cannot cope with other infections. This is the late stage and is called aids.

Tobacco mosaic virus affects plants, parts of the leaves become discoloured. This means plants cannot carry out photosynthesis; this will affect the plants growth.



Fungal and Protist Diseases

Fungal

Rose black spot shows as black spots on the leaves of the plant, this means less photosynthesis occurs. As a result, the plant does not grow as well. It is spread by the wind or the water. They can be treated by using fungicides and taking the leaves off the infected plant.

Protists

Malaria is caused by a protist, mosquitoes are the vectors. They become infected when they feed on an infected animal. The protist is inserted into the blood vessel. Malaria can cause fever, it can also be fatal.

Bacterial Diseases

Salmonella bacteria causes food poisoning. Symptoms include fever, stomach cramps, vomiting and diarrhoea. The symptoms are caused by the toxins produced by the bacteria. Food contaminated with salmonella can give you food poisoning. Most poultry in the UK will have had a vaccination against salmonella.

Gonorrhoea is a sexually transmitted bacterial disease, passed on by sexual contact. Symptoms include pain when urinating and thick yellow/green discharge from the vagina or penis. To prevent the spread, people should be treated with antibiotics and use a condom.

How to prevent the spread:

Being hygienic -

washing hands thoroughly.

Destroying vectors -

killing vectors by using insecticides or destroying their habitat.

Isolation -

isolating an infected person will prevent the spread.

Vaccination -

people cannot develop the infection and then pass it on.





Infection and Response Knowledge Organiser - Foundation and Higher

Fighting Diseases

Defence System

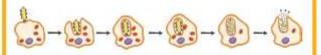
- 1. The skin acts as a barrier to pathogens.
- 2. Hairs and mucus in your nose trap particles.
- The trachea and bronchi secrete mucus to trap
 pathogens. They also have cilia which move
 backwards and forwards to transport the mucus
 towards the throat. This traps any pathogens
 and the mucus is usually swallowed.
- The stomach contains hydrochloric acid to kill any pathogens that enter the body via the mouth.

The Immune System

This kills any pathogens that enter the body.

White blood cells-

- Phagocytosis is when white blood cells engulf pathogens and then digest them.
- They produce antitoxins to neutralise the toxins.
- They also produce antibodies. Pathogens have antigens on their surface, antibodies produced by the white blood cells lock on to the antigen on the outside of the pathogen. White blood cells can then destroy the pathogens. Antibodies are specific to one antigen and will only work on that pathogen.



Vaccinations

Vaccinations have been developed to protect us from future infections. A vaccination involves an injection of a dead or weakened version of the pathogen. They carry antigens which cause your body to produce antibodies which will attack the pathogen. If you are infected again, the white blood cells can produce antibodies quickly.



Pros	Cons			
Helps to control communicable diseases that used to be very common.	They don't always work.			
Epidemics can be prevented.	Some people can have a bad reaction to a vaccine – however, that is very rare.			

Fighting Disease - Drugs

Painkillers relive the pain and symptoms, but do not tackle the cause.



Antibiotics kill the bacteria causing the problem, but do not work on viruses. Viruses are very difficult to kill because they live inside the body cells.



Developing Drugs

There are three main stages in drug testing:

Pre-clinical testing:

- 1. Drugs are tested on human cells and tissues.
- 2. Testing carried out on living animals.

Clinical testing:

Tested on healthy human volunteers in clinical trials. Starts with a very low dose, then tested on people with the illness to find the optimum dose.

Placebo is a substance that is like the drug, but does not do anything.

Placebo effect is when the patient thinks the treatment will work even though their treatment isn't doing anything.

Blind trial is when the patient does not know whether they are getting the drug or the placebo.

Double-blind trial is when both the doctor and the patient do not know whether they are getting the drug.

Drugs from Plants

Chemicals produced by plants to defend themselves can be used to treat human diseases or help with symptoms.

Drug	Plant/Microorganism		
aspirin	willow		
digitalis	foxglove		
penicillin	mould - penicillium		

New drugs are now made by chemists, who work for the pharmaceutical industry, in laboratories.

Key Vocabulary

antibodies
antigens
antitoxins
bacteria
blind trial
double-blind
fungus
microorganism
phagocytosis
placebo
protist
toxins
vaccination
vector
virus



AQA GCSE Chemistry (Combined) Unit 5 Energy Changes Knowledge Organiser

Exothermic and Endothermic Reactions

When a chemical reaction takes place, energy is involved. Energy is transferred when chemical bonds are broken and when new bonds are made.

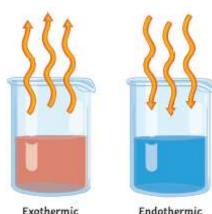
Exothermic reactions are those which involve the transfer of energy from the reacting chemicals to the surroundings. During a practical investigation, an exothermic reaction would show an increase in temperature as the reaction takes place.

Examples of exothermic reactions include combustion, respiration and neutralisation reactions. Hand-warmers and self-heating cans are examples of everyday exothermic reactions.

Endothermic reactions are those which involve the transfer of energy from the surroundings to the reacting chemicals. During a practical investigation, an endothermic reaction would show a decrease in temperature as the reaction takes place.

Examples of endothermic reactions include the thermal decomposition of calcium carbonate.

Eating sherbet is an everyday example of an endothermic reaction. When the sherbet dissolves in the saliva in your mouth, it produces a cooling effect. Another example is instant ice packs that are used to treat sporting injuries.



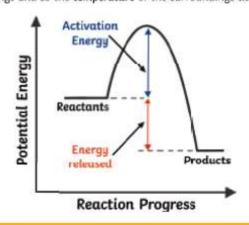
Exothermic

Reaction Profiles - Exothermic

Energy level diagrams show us what is happening in a particular chemical reaction. The diagram shows us the difference in energy between the reactants and the products.

In an exothermic reaction, the reactants are at a higher energy level than the products.

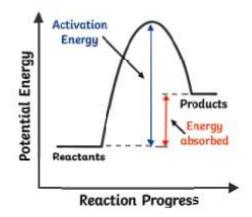
In an exothermic reaction, the difference in energy is released to the surroundings and so the temperature of the surroundings increases.



Reaction Profiles - Endothermic

In an endothermic reaction, the reactants are at a lower energy level than the products.

In an endothermic reaction, the difference in energy is absorbed from the surroundings and so the temperature of the surroundings decreases,



Activation Energy - the minimum amount of energy required for a chemical reaction to take place.

Catalysts - increase the rate of a reaction. Catalysts provide an alternative pathway for a chemical reaction to take place by lowering the activation energy.

Bond Making and Bond Breaking

In an endothermic reaction, energy is needed to break chemical bonds. The energy change (AH) in an endothermic reaction is positive.

You may also find, in some textbooks, AH referred to as the enthalpy change.

In an exothermic reaction, energy is needed to form chemical bonds. The energy change (DH) in an exothermic reaction is negative.

Bond energies are measured in kJ/mol.



Calculations Using Bond Energies (Higher Tier Only)

Bond energies are used to calculate the change in energy of a chemical reaction.

Calculate the change in energy for the reaction: 2H2O2 -> 2H2O + O2

The first step is to write the symbol equation for the reaction.

Once you have done this, work out the bonds that are breaking and the ones that are being made.

2H-O-O-H -> 2H-O-H + O×O

Bond	Bond Energy kJ/mol
H-O	464
0-0	146
0=0	498

On the left-hand side of the equation, the bonds are breaking.

There are two O-H bonds and one O-O bond.

So 464 + 146 + 464 = 1074

There are two moles of H2O2 therefore the answer needs to be multiplied by two.

So 1074 × 2 = 2148

On the right-hand side of the equation, the bonds are made.

There are two H-O bonds

So 464 + 464 = 928

Two moles of H₂O are made therefore the answer needs to be multiplied by two.

So 928 × 2 = 1856

There is also one O=O bond with a bond energy of 498

So 1856 + 498 = 2354

ΔH = sum (bonds broken) - sum (bonds made)

ΔH = 2148 - 2354 = -206 kJ/mol

The reaction is exothermic as AH is negative.

AQA GCSE Chemistry (Combined) Unit 5 Energy Changes Knowledge Organiser

Required Practical

Aim

To investigate the variables that affect temperature changes in reacting solutions, e.g. acid plus metals, acid plus carbonates, neutralisations and displacement of metals.

Equipment

- polystyrene cup
- · measuring cylinder
- thermometer
- 250cm³ glass beaker
- · measuring cylinder
- · top pan balance

Method

- 1. Gather the equipment.
- 2. Place the polystyrene cup inside the beaker. This will prevent the cup from falling over.
- Using a measuring cylinder, measure out 30cm³ of the acid. Different acids such as hydrochloric or sulfuric
 acid may be used. Pour this into the polystyrene cup.
- 4. Record the temperature of the acid using a thermometer.
- Using a top pan balance, measure out an appropriate amount of the solid (for example, 10g) or use one strip of a metal such as magnesium.
- Add the solid to the acid and record the temperature. You may choose to record the temperature of the acid and metal every minute for 10 minutes.





AQA Combined Science: Physics Topic 3 Particle Model of Matter

Required Practical

Measuring the density of a regularly shaped object:

- Measure the mass using a balance.
- Measure the length, width and height using a ruler.
- Calculate the volume.
- Use the density (p = m/V) equation to calculate density.

Measuring the density of an irregularly-shaped object:

- Measure the mass using a balance.
- Fill a eureka can with water.
- Place the object in the water the water displaced by the object will transfer into a measuring cylinder.
- Measure the volume of the water. This equals the volume of the object.
- Use the density (p = m/V) equation to calculate density.



Density

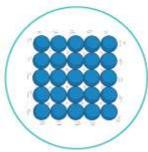
Density is a measure of how much mass there is in a given space,

Density (kg/m3) = mass (kg) + volume (m3)

A more dense material will have more particles in the same volume when compared to a less dense material.

Particles

Solids have strong forces of attraction. They are held together very closely in a fixed, regular arrangement. The particles do not have much energy and can only vibrate.

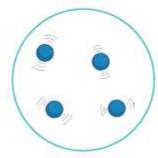


Liquids have weaker forces of attraction. They are close together, but can move past each other. They form irregular arrangements. They have more energy than particles in a solid.



Gases have almost no forces of attraction between the particles.

They have the most energy and are free to move in random directions.



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Particles

Gas particles can move around freely and will collide with other particles and the walls of the container. This is the pressure of the gas.

If the temperature of the gas increases, then the pressure will also increase. The hotter the temperature, the more kinetic energy the gas particles have. They move faster, colliding with the sides of the container more often.



Density

The density of an object is 8050kg/m³ and it has a volume of 3.4m³ - what is its mass in kg?

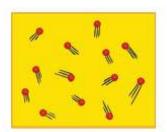
8050 - mass ÷ 3.4

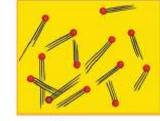
8050 × 3.4 = mass

27 370kg

Internal Energy

Particles within a system have kinetic energy when they vibrate or move around. The particles also have a potential energy store. The total internal energy of a system is the kinetic and potential energy stores.



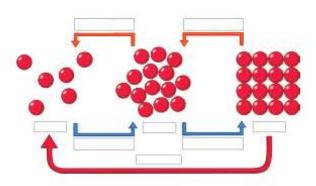


Low Temperature

High Temperature

If the system is heated, the particles will gain more kinetic energy, so increasing the internal energy.

Changing State

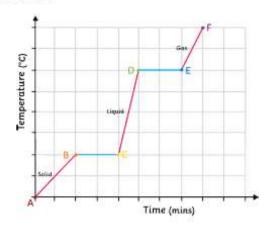


If a system gains more energy, it can lead to a change in temperature or change in state. If the system is heated enough, then there will be enough energy to break bonds.

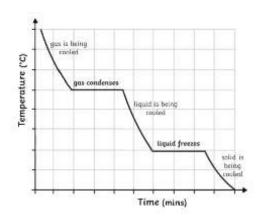
When something changes state, there is no chemical change, only physical. No new substance is formed. The substance will change back to its original form. The number of particles does not change and mass is conserved.

Specific Latent Heat

Energy is being put in during melting and boiling. This increases the amount of internal energy. The energy is being used to break the bonds, so the temperature does not increase. This is shown by the parts of the graph that are flat.



When a substance is condensing or freezing, the energy put in is used to form the bonds. This releases energy. The internal energy decreases, but the temperature does not go down.



The energy needed to change the state of a substance is called the latent heat.

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AQA Combined Science: Physics Topic 3 Particle Model of Matter

Specific latent heat is the amount of energy needed to change 1kg of a substance from one state to another without changing the temperature. Specific latent heat will be different for different materials.

- solid -> liquid specific latent heat of fusion
- liquid —> gas specific latent heat of vaporisation

Specific Latent Heat Equation

The amount of energy needed/released when a substance of mass changes state.





Year 10 French Term 3

Studio AQA Units 4 & 5, Local area & holidays (Theme 2).

Où habites-fu ?	⋖	Where do you live?
	:	- 1
J'habite dans un village près de Derby.	_	l live in a village close to Derby.
Il n'y a rien à faire ici car c'est assez petit.	2	There is nothing to do here because it is quite small.
Cependant, au centre-ville on peut faire les magasins et	3	However, in centre-town one can go shopping and
visiter la cathédrale et d'autres bâtiments historiques.	4	visit the cathedral and other historic buildings.
Il y avait un centre de loisirs mais maintenant c'est fermé.	5	There was a leisure centre but now it's closed.
Dans ma région il y a beaucoup d'espaces verts	9	In my region there are a lot of green spaces
donc c'est super quand il fait beau, mais	7	so it's super when it is nice weather, but
il n'y a pas de transport en commun, ce qui est nul.	00	there is no public transport, which is rubbish.
Si j'étais maire de mon village, il y aurait	6	If I was the mayor of my village there would be
une piscine, une patinoire et un cinéma	10	a swimming pool, an ice-rick and a cinema
afin que les jeunes puissent s'amuser.	7	so that young people could have fun.
Où voudrais-tu habiter ?	m	Where would you like to live?
A l'avenir je voudrais habiter à Londres car c'est cool	12	In the future I would like to live in London cause it's cool
bien que ce soit loin de ma famille	13	although it is far from my family
et il y a trop de circulation et de bruit.	14	and there is too much traffic and noise.
Qu'est-ce que tu as fait récemment en ville ? Qu'est-ce que tu vas faire ?	ပ	What have you done recently in town? What are you going to do?
	15	Last weekend, I went for a walk
près du canal avec mon meilleur copain et	16	near the canal with my best friend at
on a discuté du tout. C'était assez amusant,	17	we talked about everything. It was quite fun
mais le week-end prochain on va aller au stade	92	but next weekend we are going to go to the stadium
où on va voir un match de foot,	19	where we are going to see a football match,
ce qui sera plus passionnant.	20	which will be more exciting.
Parle-moi de tes vacances.	_	Tell me about your holidays.
Normalement je passe mes vacances en Angleterre	21	Normally I spend my holidays in England
mais l'année dernière je suis allée en France.	22	but last year I went to France.
C'était fantastique car il faisait du soleil tous les jours.	23	It was fantastic because it was sunny everyday.
Pas comme ici où il pleut toujours !	24	Not like here where it always rains!
On est allées à la plage et je me suis reposée	25	We went to the beach and I relaxed
en lisant un roman policier.	26	while reading a crime novel.
Un soir j'ai mangé du loup de mer au resto	27	One evening I ate sea bass at a restaurant
mais malheureusement ce n'était pas cuit et j'ai vomi !	28	but unfortunately it was not cooked and I vomited!
Décris tes vacances de rêve.	ш	Describe your dream holiday.
Si j'avais le choix je voyagerais aux États-Unis	30	If I had the choice I would travel to the US
J'ai toujours voulu aller à New York	31	I have always wanted to go to New York
J'irais à Central Park et je ferais beaucoup du tourisme	32	I would go to Central Park and I would do a lot of tourism.
Ce serait inoubliable !	33	It would be unforgettable!
	1	

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Studio AQA Units 4 & 5, Local area & holidays (Theme 2).

Sentence builder 1: Describing your town & local area.

J'habite à I live in	. C'est It is		un village a village	dans le nord	l/le sud/l'ouest/l'est		
			une petite/grande ville	in the north/s	outh/west/east		
			a small/big town	de l'Anglete	rre of England		
Aussi also	il y a there i	S	un centre commercial		pping centre		
Avant before	il y avait the		un centre de loisirs		a leisure centre		
L'année prochain nex	7 (100 miles 7 (100 miles 100 miles		un lac	a lake	a lake		
Cependant however	il n'y a pas	The state of the s	un musée	a mus	seum		
there is not/there are not			un port de pèche	a fish	ing port		
il n'y a plus de		une bibliothèque	a libra	ary			
there is no longer a		une patinoire	an ice	rink			
	NB : you do	n't need un, une or	des plages	some	beaches		
	des after 'il	n'y a pas/plus de'!	des collines	some	hills		
	The second of th	THE STATE OF THE S	des espaces verts		green spaces		
Si j'étais le maire, il y aurait			des fermes		farms		
If I was the mayor, there would be			des forêts				
in i mad and mayor, andre modia do			des magasins				
			des stations du ski	[18] [18] [18] [18] [18] [18] [18] [18]			
			des transports en communs some public transport				
(où) on peut (where)	ou can	Ĭ	faire les magasins/faire d	du sport	do shopping/do sport		
			faire des promenades/de	s randonnées	do walks/hikes		
			se retrouver avec des an	nis	meet up with friends		
ce qui est	which is	très very		amusant	fun		
ce qui n'est pas	which isn't	trop too		intéressant interesting			
À mon avis c'est	in my opinion it's	vraiment really		ennuyeux boring			
Je pense que c'est	I think that it's	assez quite		joli/moche pretty/ugly			
And the second s		un peu a bit		nul/utile	rubbish/useful		
À l'avenir je voudrais		à l'étranger abroa		plus more	animé/tranquille lively/calm		
In the future I would like to live à la campagne				because it is moins less passionnant exciting			
à la montagne in the mountains au bord de la m		in the countryside					
			because there is a lot		territoria de la compania de la comp		
		W. C.	parce qu'il y a moins				
				The second secon			
		at the seaside	bien que ce soit loin	de ma famille.	although it's far from my family.		



Studio AQA Units 4 & 5, Local area & holidays (Theme 2).

Sentence builder 2: Describing holidays in the past/future.

Normale	ement nor	mally	go						with my family			
mais l'année dernière je suis allé(e)			en Espagne		to Spain avec mes amis			with my friends				
but las	ut last year I went			aux États-Uni	s	to Amer	ica	avec me	s camarade	camarades de classe		
ľé	té dernie	r last summer	CONTRACTOR STATE		au bord de la	mer	to the seas	ide			with	my classmates
On a vo	yagé en		avion	plane	et on a logé d	ans	ns un hôtel de luxe a luxury hotel			(in)c	onfortable	
We trave	elled by		bateau	boat	and we stayed	in	un camping a	ampsi	ite		(un)c	comfortable
		train			une auberge de	jeun	esse a y	outh hostel	(pas)	cher/chère		
		coach			une caravane a				(not)	expensive		
voiture car			car			une tente a tent	t			nul(le	e) rubbish	
Le prem	nier jour						amusan	t	fun			
The first day j'ai fait les magasins/du tourisme I did shopping/tourism					était	ennuye	ux	boring				
Puis the	en				e/des randonné				which	fascinar	nt	fascinating
Ensuite	next	I went for wa							was	relaxant	t	relaxing
Le soir		j'ai visité les monuments/les bâtiments historiques fantastique						fantastic				
in the ev	vening	g I visited historic monuments/buildings inc						incroya	ble	incredible		
Le dernier jour je suis allé(e) à la plage/au restaurant I went				aurant I went to	the b	each/restaurant		c'étair	inoublia	ble	unforgettable	
The last day j'ai mangé du poisson/des plats			s traditionnels	ate fi	sh/traditional dish	es	it was	désastr	eux	disastrous		
	6	j'ai pris un								catastro	phiqu	e catastrophic
								délicieu		delicious		
Après	je me s	uis reposé s					ant un roman.		112	***************************************	while r	eading a book
After		à	l'hôtel	a	at the hotel	en écoutant de la musique. while listening to music						
						en bu	vant une limona	de.		whi	le drink	king lemonade.
J'avais	de la cha	nce car		il faisait b	eau		it was good w	eather	tout le	temps		all the time
I was luc	cky becaus	se		il faisait d	u soleil		it was	sunny	tous	es jours		every day
C'était u	un désast	re car		il faisait c	haud		it w	as hot	tous	es jours sau	ıf un	7
It was a	disaster b	ecause		il faisait fr	roid	it was cold			3	every o	day except one	
				il pleuvait			it	rained			17211	S 0
L'année	prochair	The state of the s			ontagne	С			touristique	2	touristy	
Next year	ar	j'aimera	ais aller	to the r				moir	ns less	animé		lively
L'été pr	ochain	I would	like to go	à l'Asi	e to Asia	b	ecause it is		and the state of t	calme/tran	quille	calm
Next sur		j'irai l w		1 TO		tralie to Australia pour faire les sports d'hi				1-41.11	to d	o winter sports
au Ja				au Jap	on to Japan	p	our profiter de la	natu	re la-bas	to	enjoy ti	he nature there



Studio AQA Units 4 & 5, Local area & holidays (Theme 2).

Grammar: Describing holidays in different tenses

Higher

PRESENT	PAST (PERFECT)	NEAR FUTURE	PAST (IMPERFECT)	SIMPLE FUTURE	CONDITIONAL
Normalement Normally Chaque année Every year	L'année dernière Last year L'été dernier Last summer	L'année prochaine Next year L'été prochain Next summer	Quand j'étais plus jeune When I was younger	Quand je serai plus âgé(e) When I'm older	Pour mes vacances de rêve For my dream holidays Si j'avais le choix If I had the choice Si je gagnais au loto If I won the lottery
<mark>je vais en France</mark>	je suis allé(e) en France	je vais aller en France	j'allais en France	j'irai en France	i'irais en France
I go to France	I went to France	I am going to go to France	I used to go to France	I will go to France	I would go to France
je fais des magasins	j'ai fait des magasins	je vais faire des magasins	je faisais des magasins	je ferai des magasins	je ferais des magasins
I do shopping	I did shopping	I am going to do shopping	I used to do shopping	I will do shopping	I would do shopping
je loge	j'ai logé	je vais loger	je logeais	je logerai	je logerais
dans un hôtel de luxe	dans un hôtel de luxe	dans un hôtel de luxe	dans un hôtel de luxe	dans un hôtel de luxe	dans un hôtel de luxe
I stay	I stayed	I am going to stay	I used to stay	I will stay	I would stay
in a luxury hotel	in a luxury hotel	in a luxury hotel	in a luxury hotel	in a luxury hotel	in a luxury hotel
je visite un musée	j'ai visité un musée	je vais visiter un musée	je visitais un musée	je visiterai un musée	je visiterais un musée
I visit a museum	I visited a museum	I am going to visit a museum	I used to visit a museum	I will visit a museum	I would visit a museum
je nage	j'ai nagė	je vais nager	je nageais	je nagerai	je nagerais
dans la mer	dans la mer	dans la mer	dans la mer	dans la mer	dans la mer
I swim	I swam	I am going to swim	I used to swim	I will swim	I would swim
in the sea	in the sea	in the sea	in the sea	in the sea	in the sea
je me repose	je me suis reposé(e)	je vais me reposer	je me reposais	je me reposerai	je me reposerais
sur la plage	sur la plage	sur la plage	sur la plage	sur la plage	sur la plage
I relax	I relaxed	I am going to relax	I used to relax	I will relax	I would relax
on the beach	on the beach	on the beach	on the beach	on the beach	on the beach
C'est super	n/a	Ça va être super	C'était super	Ce sera super	Ce serait super
It is super		It is going to be super	It was super	It will be super	It would be super



AQA GCSE Geography: Physical Landscapes of the UK (Intro/Processes)

Relief of the UK

Relief of the UK can be divided into uplands and lowlands. Each have their own characteristics.

Key

Lowlands

Uplands



Areas +600m: Peaks and ridges cold, misty and snow common. i.e. Scotland

Areas -200m: Flat or rolling hills. Warmer weather. i.e. Fens

Types of Erosion

The break down and transport of rocks – smooth, round and sorted.

Attrition	Rocks that bash together to become smooth/smaller.
Solution	A chemical reaction that dissolves rocks.
Abrasion	Rocks hurled at the base of a cliff to break pieces apart.
Hydraulic Action	Water enters cracks in the cliff, air compresses , causing the crack to expand.

Mass Movement

A large movement of soil and rock debris that moves down slopes in response to the pull of gravity in a vertical direction.

- Rain saturates the **permeable** rock above the impermeable rock making it heavy.
- Waves or a river will **erode** the base of the slope making it unstable.
- Eventually the weight of the **permeable** rock above the impermeable rock weakens and collapses.
- The debris at the base of the cliff is then removed and transported by waves or river.

Types of Weathering

Weathering is the breakdown of rocks where they are.

Carbonation	Breakdown of rock by changing its chemical composition.
Mechanical	Breakdown of rock without changing its chemical composition.



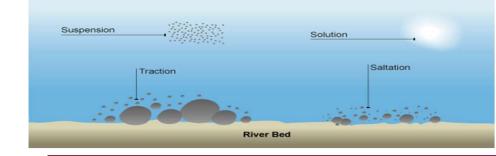
What is Deposition?

When the sea or river loses energy, it drops the sand, rock particles and pebbles it has been carrying. This is called deposition.

Types of Transportation

A natural process by which eroded material is carried/transported.

Solution	Minerals dissolve in water and are carried along.
Suspension	Sediment is carried along in the flow of the water
Saltation	Pebbles that bounce along the sea/river bed.
Traction	Boulders that roll along a river/sea bed by the force of the flowing water.





AQA GCSE Geography: Physical Landscapes of the UK (Coasts)

How do waves form?

Waves are created by wind blowing over the surface of the sea. As the wind blows over the sea. friction is created - producing a swell in the water.

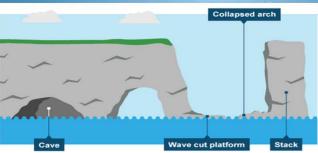
Why do waves break?

- Waves start out at sea.
- As waves approaches the shore, **friction** slows the base.
- 3 This causes the orbit to become elliptical.
- Until the top of the wave breaks over.

Formation of Bays and Headlands

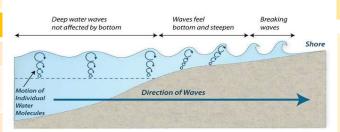
- Waves attack the coastline.
- Softer rock is eroded by the sea guicker forming a bay, calm area cases deposition.
- More resistant rock is left jutting out into the sea. This is a headland and is now more vulnerable to erosion.





Size of waves

- Fetch how far the wave has travelled
- Strength of the wind.
- How long the wind has been blowing for.



Formation of Coastal Spits - Deposition

Example: Spurn Head, **Holderness** Coast.



- Swash moves up the beach at the angle/direction of the prevailing wind.
- Backwash moves debris/water back down the beach at 90° to coastline, due to gravity.
- Zigzag movement (Longshore Drift) transports material along
- Deposition causes beach to extend, until reaching a river estuary.
- Change in **prevailing wind** direction forms a hook.
- Sheltered area behind spit encourages deposition, salt marsh forms.

Types of Waves Constructive Waves This wave has a **swash that is stronger** than the backwash. This therefore builds up the coast. Strong swash Long wavelength Steep gradient gradient Beach built up by brought up in swash

Destructive Waves

This wave has a **backwash that is stronger** than the swash. This therefore erodes the coast.



Formation of Coastal Stack

- 1) Hydraulic action widens cracks in the cliff face over time.
- 2) Abrasion forms a wave cut notch between high tide and low tide.
- 3) Further **abrasion** widens the wave cut notch to from a cave.
- Caves from both sides of the **headland** break through to form an arch.
- 5) Weather above/erosion below –arch collapses leaving stack.
- Further weathering and erosion eaves a **stump**.

Example: Old Harry Rocks, **Dorset**



AQA GCSE Geography: Physical Landscapes of the UK (Coasts)

Coastal Defences		
Hard Engineering Defences		
Groynes	Wood barriers prevent longshore drift, so the beach can build up.	 Beach still accessible. No deposition further down coast = erodes faster.
Sea Walls	Concrete walls break up the energy of the wave . Has a lip to stop waves going over.	 ✓ Long life span ✓ Protects from flooding X Curved shape encourages erosion of beach deposits.
Gabions or Rip Rap	Cages of rocks/boulders absorb the waves energy, protecting the cliff behind.	 ✓ Cheap ✓ Local material can be used to look less strange. X Will need replacing.
Soft Engineering Defences		
Beach Nourishment	Beaches built up with sand, so waves have to travel further before eroding cliffs.	 ✓ Cheap ✓ Beach for tourists. X Storms = need replacing. X Offshore dredging damages seabed.
Managed Retreat	Low value areas of the coast are left to flood & erode.	✓ Reduce flood risk✓ Creates wildlife habitats.X Compensation for land.

Case Study: Hunstanton Coast

Location and Background

Located on the North-West coast of Norfolk. The town is a popular sea resort for tourists to visit all year round.

In 2013, the town suffered damage from a storm surge. The Sea Life Centre was flooded and closed for a number of months.

Geomorphic Processes

- Old Hunstanton is dominated by dunes that are formed when sand is trapped and built up behind objects.
- -Hunstanton Cliffs are made from three different bands of rock (sandstone, red chalk and white chalk).
- -Hunstanton Cliff are exposed to cliff retreat. This is when a wave-cut notch develops enough for the cliff face to become unstable and eventually collapses.
- -Longshore drift travels from Sheringham in the north to the Wash in the south.

Management

- -Hunstanton is protected by a number of groynes. These trap sand to build up the beach for better protection.
- -The town is also protected by large sea walls to prevent flooding and deflect the waves energy.
- -\$15 million has been spent on beach nourishment to add sediment to beach for increased protection against flooding.



or hail.

ground.

rivers

ground.

AQA GCSE Geography: Physical Landscapes of the UK (Rivers)

Upper Course of a River

Precipitation

Interception

Surface

Runoff

Infiltration

Transpiration

Near the source, the river flows over steep **gradient** from the hill/mountains. This gives the river a lot of energy, so it will erode the riverbed vertically to form narrow valleys.

Moisture falling from clouds as rain, snow

Vegetation prevent water reaching the

Water absorbed into the soil from the

Water lost through leaves of plants.

Water flowing over surface of the land into

When a river floods, fine silt/alluvium is deposited on the valley floor. Closer to the river's banks, the heavier materials build up to form natural levees.

- Nutrient rich soil makes it ideal for farming.
- Flat land for building houses.

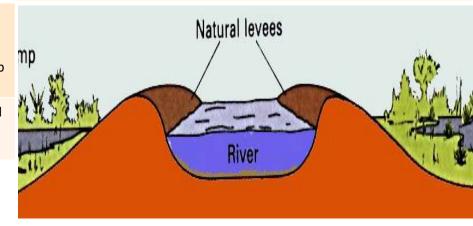
Middle Course of a River

Here the gradient get gentler, so the water has less energy and moves more slowly. The river will begin to erode **laterally** making the river wider.

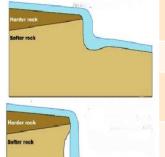
Lower Course of a River

Near the river's mouth, the river widens further and becomes flatter.

Material transported is deposited.



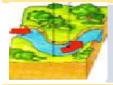
Formation of a Waterfall



- 1) River flows over **alternative** types of rocks (harder and softer.
- 2) River **erodes** soft rock faster creating a step.
- 3) Further **hydraulic action** and abrasion form a **plunge pool** beneath.
- 4) Hard rock above is **undercut** leaving cap rock which collapses providing more material for erosion.
- 5) Waterfall retreats leaving steep sided gorge.

Formation of Ox-bow Lakes

Step 1



Erosion of outer bank forms river cliff. Deposition inner bank forms **slip off slope.**

Further hydraulic action and abrasion of outer banks, neck gets smaller.

Step 2

Step 4

Step 3



Erosion breaks through **neck**, so river takes the fastest route, redirecting flow



Evaporation and deposition cuts off main channel leaving an **oxbow** lake.



AQA GCSE Geography: Physical Landscapes of the UK (Rivers)

Physical and Human Causes of Flooding.

Physical: Prolong & heavy rainfall Long periods of rain causes soil to become saturated leading runoff.

Physical: Geology Impermeable rocks causes surface runoff to increase river discharge.

Physical: Relief Steep-sided valleys channels water to flow quickly into rivers causing greater discharge.

Human: Land Use
Tarmac and
concrete are
impermeable. This
prevents infiltration
& causes surface

runoff.

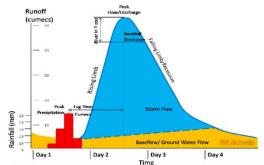
River Management Schemes

Soft Engineering	Hard Engineering
Afforestation – plant trees to soak up rainwater, reduces flood risk.	Straightening Channel – increases velocity to remove flood water.
Demountable Flood Barriers put in place when warning raised. Managed Flooding – naturally let areas flood, protect	Artificial Levees – heightens river so flood water is contained. Deepening or widening river to increase capacity for a flood.
settlements.	Despending of Milestoning From to moreuse capacity for a moduli

Hydrographs and River Discharge

River discharge is the volume of water that flows in a river. Hydrographs who discharge at a certain point in a river changes over time in relation to rainfall

- 1. **Peak discharge** is the discharge in a period of time.
- 2. **Lag time** is the delay between peak rainfall and peak discharge.
- 3. **Rising limb** is the increase in river discharge.
- 4. **Falling limb** is the decrease in river discharge to normal level.



Case Study: The River Tees

Location and Background

Located in the North of England and flows 137km from the Pennines to the North Sea at Red Car.

Geomorphic Processes

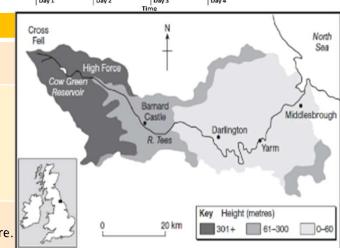
Upper – Features include V-Shaped valley, rapids and waterfalls. High Force waterfall drops 21m and is made from harder Whinstone and softer limestone rocks. Gradually a gorge has been formed.

Middle – Features include meanders and ox-bow lakes. The meander near Yarm encloses the town.

Lower – Greater lateral erosion creates features such as floodplains & levees. Mudflats at the river's estuary.

Management

- -Towns such as Yarm and Middleborough are economically and socially important due to houses and jobs that are located there.
- -Dams and reservoirs in the upper course, controls river's flow during high & low rainfall.
- Better flood warning systems, more flood zoning and river dredging reduces flooding.





History: Germany before WW1

How was Germany ruled?

- ✓ Before World War I, Germany was ruled by Kaiser Wilhelm II
- ✓ German men over 25 could vote in **Reichstag** elections, although the **Kaiser** could ignore the **Reichstag** if he wanted to
- ✓ The Social Democrats (SPD) were the largest party in the Reichstag after 1912
- ✓ The army held a great deal of political power & militarism was very important in Germany

Germany under the Kaiser

Wilhelm wanted Germany to overtake Britain as the most powerful & industrialised country. By 1913 Germany was producing more iron & steel than Britain.

Increased industrialisation led to more profits for factory owners. Workers wanted better wages and working conditions, so many joined trade unions. These organised strikes to force the Kaiser to improve their conditions. Many workers also voted for the SPD.

Foreign Policy

Wilhelm wanted Germany to gain an empire, like other European countries. This was known as **Weltpolitik**. As a result he built up Germany's navy through a series of Naval Laws between 1989 & 1912. The army was increased too. These increases were paid for by higher taxes.

The First World War

The British blockade quickly resulted in food shortages & there were some protests early on. 1918: civilians starving. Germany losing on the battlefield. Ludendorff told the Kaiser to give more democratic freedoms in order to get a better deal from the Allies. But these changes achieved little. 28th October 1918: the German navy mutinied. This spread to nearby ports & towns. Soldiers who were sent to deal with mutiny joined it. Workers councils were set up all over Germany. The Kaiser was forced to abdicate. Ebert, leader of the SPD became leader of the new government.

Year 10 Term 3 Knowledge C	Organiser

Key Terms	Definitions	
Militarism	The belief that a country should maintain a strong	
	army	
Kaiser	Germany emperor	
Reichstag	German parliament	
Industrialisation	The process of changing from a mainly agriculture	
	based economy to one based on manufacture	
Trade unions	An association of workers formed to protect their	
	interests	
SPD	Social Democratic Party. It wanted to improve the	
	lives of the working classes	
Weltpolitik	World policy	
Mutiny	Rebellion by soldiers or sailors	
Abdicate	Giving up the throne	
Armistice	Agreement to end a war	
November	The nickname give to the politicians who signed the	
Criminals	armistice	

Impact of the war

Germany was bankrupt

- Germany had borrowed money & needed to pay it back
- 60,000 war widows & 2 million children without fathers

Society divided further

- Some factory owners made a fortune, but workers had their wages restricted
- Women worked in factories, some people say this as damaging family values

More politically unstable

- Germany had been rich & stable, now there was mutiny & revolution
- Many Germans blamed the new government for signing the armistice. Calling them the November Criminals



History: The Early Weimar Republic

The new Weimar Republic

Ebert ordered new elections but introduced reforms in housing & help for the unemployed. In January 1919 his party, the SPD gained the most votes in the elections.

Rebellions

Spartacist League: communists who wanted Germany run by workers councils. 6th January 1919, they tried to take over Berlin. Ebert sent in the Free Corps (Frei Korps) to put down the rebellion. The Spartacist leaders, Rosa Luxemburg & Karl Liebknecht were murdered. Kapp Putsch: March 1920 Kapp & 5000 Free Corps, took over Berlin. Kapp wanted to make Germany strong again & recover the lands lost under Versailles. Ebert & the government fled but ordered the people to go on strike. Kapp was forced to flee.

Red Rising: After Kapp fled, left-wing workers of the Ruhr stayed on strike & took over several towns. The government sent soldiers & **Free Corps** to deal with it. Over 1000 workers killed.

The Weimar Constitution

- ✓ The Weimar Constitution was very democratic: all men and women could vote, Reichstag deputies and the President were elected, the President appointed a Chancellor to run the government, usually from the largest party in the Reichstag
- ✓ However, the constitution had some weaknesses: Article 48 allowed
 the President to rule without the Reichstag in an emergency & the
 system of proportional representation led to weak coalition
 governments which struggled to pass laws
- ✓ The Weimar Republic were blamed for surrendering in World War I.
- ✓ Weimar politicians were mocked as the November Criminals by nationalists and the 'Stab in the Back' myth became widespread

real to refin 3 knowledge Organiser		
Key Terms	Definitions	
Weimar Republic	The new German government	
Free Corps (Frei	A right-wing group of ex-soldiers	
Korps)		
Reichstag	German parliament	
Democratic	When all the people decide who rules them	
President	The head of state, elected every 7 years. Stayed	
	out of the day-to-day running of the government	
Chancellor	Normally the leader of the biggest party, responsible	
	for the day-to-day running of the country	
Article 48	Special emergency degrees, which could be passed by	
	the president	
Proportional Proportion of votes = proportion of votes		
representation		
Coalition	When a group of parties join together to form a	

Left wing/right wing

Left wing

November

Criminals

 Workers should have the power & rule through workers councils

Year 10 Term 3 Knowledge Organise

- There should be equality
- Change is welcome
- Example: Communist Party

Right wing beliefs

The nickname give to the politicians who signed the

- · Strong leaders should rule
- Your own country should be strong & powerful
- Change is not welcome
- Example: Nazi Party

German reactions to the Treaty of Versailles

government

armistice

The German people hated the treaty because:

- It was seen as too harsh & they would be unable to pay the reparations
- It was seen as diktat a forced peace, which they were made to sign
- The politicians were hated fro signing the treaty & were seen as betraying the army. They were known as the November Criminals



Year 10 Term 3 Knowledge Organiser



History

History: The early Weimar Republic

The hyperinflation crisis

Germany's failure to pay reparations led to the 1923 Ruhr Crisis

- In 1922, Germany missed a reparations payment to France
- In 1923, French soldiers occupied the Ruhr, Germany's industrial region, and began to take coal, iron, and steel as reparations payments
- The Weimar Republic ordered German workers to go on strike rather than work with the French (passive resistance)
- In order to pay the striking workers in the Ruhr, the government printed money which led to hyperinflation

Hyperinflation seriously damaged the German economy

- The Weimar government's decision to print money led to hyperinflation as paper money became worthless
- Prices increased rapidly: a loaf of bread cost 201 billion marks by November 1923
- People with savings, especially the elderly, suffered as their savings became worthless

Hitler & the Nazi Party

Hitler made big changes to the Nazi Party including: setting out a 25 Point Programme which made his aims clear. These included destroying the ToV & making Germany great again. He introduced the swastika as the Nazi symbol set up the **brownshirts** as his private army. They were used to beat up their opponents. The membership of the party grew to 5000 in 1921.

The Munich Putsch

Hitler's attempt to take over the government of Bavaria in 1923, with the support of General Ludendorff (WW1 general). It failed. Hitler was convicted of treason & sent to prison. Whilst in prison he wrote Mein Kampf (My Struggle). Hitler decided to change his tactics & seize power through political means.



Key Terms	Definitions
Hyperinflation	A sudden, dramatic rise in prices.
Brownshirts	The Nazi's private army. Also known as
	stormtroopers.
Rentenmark	The new currency introduced by Stresemann
Daws Plan	Agreement between the USA & Germany, giving
	Germany US loans in order to help them recover
Young Plan	Agreement to reduce reparations between Germany &
	the countries they owned money to after WW1
Locarno Pact	Normally the leader of the biggest party, responsible
	for the day-to-day running of the country

Recovery under Stresemann

Hyperinflation: Stresemann replaced the old currency with a new one. This ended hyperinflation, however, people who had lost their savings did not get them back.

The Ruhr: Stresemann arranged for the USA to lend Germany money under the Dawes Plan. Germany could start paying back the reparations & the French & Belgian troops left the Ruhr. In 1929, the reparations were negotiated down & Germany was given longer to pay them. This was known as the Young Plan.

Regain international power: 1925 Germany signed the Locarno Pact with GB, France, Belgian & Italy, agreeing never to go to war. In 1926 Germany joined the League. Germany recovered it's international status but she did not recover her land lost in the ToV.

Improving the German economy: Stresemann used some money from the Dawes Plan to build factories, houses, schools & roads. Some American factories relocated to Germany.

Recovery?

- There were still many political parties & none could gain enough votes to get a majority. This resulted in coalitions.
- Political parties with extreme ideas continued to hate the politicians in the Reichstag.
- The recovery was built on American loans. If the USA asked for the money back, Germany would be in trouble.



History: The Early Weimar Republic & Hitler's appeal

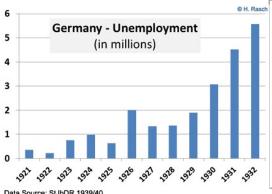
Germany's Golden Age

The Kaiser had controlled entertainment but these controls were removed under the new Weimar government.

- Cinema: Became very popular. Metropolis was the most technologically advanced film of the decade.
- Nightlife: Germany became the centre for new plays, operas & theatres shows. The Threepenny Opera was a box office smash & would have be banned by the Kaiser. Jazz music also flourished.
- Literature: Important works such as All Quiet On The Western Front (anti-war) were published.
- Art: Avant-garde artists such as Otto Dix & George Grosz believed art should show the reality of life e.g. the differences in social class & society.
- Some Germans hated the changes as they believed Germany was being led into moral decline.

The Depression

The Stock Market Crash in 1929 resulted in the USA asking for it's loans back. The USA stopped buying goods from Germany, so factories shut down. Businesses went bankrupt & unemployment rose. The government couldn't deal with the problems & people started to turn to extremist parties such as the Nazis & Communists.



Why did the Nazi Party become more popular?
The Depression: Hitler promised to deal with the economic problems. He also stated the ToV was a crime & Jews should be blamed for the economic problems. People started to listen to his ideas.

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Key Terms	Definitions	
Depression	A time in the 1930s when many banks & businesses	
	failed and unemployment rose	
Propaganda	The spreading of ideas & information, in order to	
	influence people's thinking	
Extremist parties	Political parties such as the Nazis & Communists who	
	were on the far edge of political ideas	

Germans were unhappy with the Weimar government: Chancellors were unable to sort out the economic problems. Chancellor Bruning was forced to rule through the use of Article 48, until he lost Hindenburg's support. People started to turn to extremist parties.

Fear of other extremist parties: many groups in society were worried about the threat from the Communists (they didn't want to lose their business & wealth) The Communists were also anti-religion. Hitler said he was anti-communist & used the SA to attack them.

The appeal of Hitler: his charismatic personality & passionate speaking won over a lot of people.

Nazi Party structure, methods & tactics: After the Munich Putsch Hitler realised he needed to win power legally. Nazi Party offices were set up all over Germany to recruit more followers. It used propaganda through new media such as radio broadcasts & cinema news reports. Goebbels was put in charge of propaganda. Hitler took part in fabulous parades which showed off Nazi power & the Hitler Youth was set up to encourage young followers.

Who voted for the Nazis?

Farmers: had been hit hard by the Depression, as people were buying lesson food. The Nazis promised them higher prices for their crops & protect them from a communist takeover.

Women: some felt that the Weimer government had impacted on social morals. The Nazis promised to encourage family life & encourage self-discipline.

Old soldiers & young people: Hitler promised to get rid of the ToV & make the country strong again. Young people liked his promise of more jobs in the armed forces.

Middle classes: small business owners, bank workers & doctors voted for the Nazis in large numbers. They often feared law & order would break down in the Depression & wanted strong government.

Upper classes: liked Hitler's promise of strong leadership & a more powerful nations. He might use their factories to rearm

Page 29



History: From Democracy to Dictatorship

How did Hitler become Chancellor

1930 election: The Nazis become the second largest party in the Reichstag. Bruning becomes chancellor in a coalition government. He was not popular.

The Nazis worked hard to increase their support through propaganda.

July 1932: Bruning resigned

Hindenburg appointed von Papen as Chancellor. Von Papen called an election, hoping to gain more support.

In the election the Nazis become the biggest party, winning 230 seats.

Hitler demands the job of Chancellor, but Hindenburg refuses (he thought eh Nazis were disruptive & violent). Von Papen was given the job again & he calls another election.

November 1932: the Nazi support fell slightly, but they were still the biggest political party. Von Papen's support fell & he resigned.

Hindenburg made von Schleicher Chancellor. He had no support & resigned. 30th Jan 1933: Hitler appointed Chancellor. In an effort to control him, Hindenburg only allowed 2 Nazis in the **cabinet** & von Papen was made Vice Chancellor.

Hitler did not have complete control of Germany. Hindenburg could easily replace him, Germany was still a democracy & the Communist were a threat.

Feb 1933: Hitler called a new election to take place in March 1933. In the meantime he would used the newspapers & radio stations to get his message across.

27th Feb: The Reichstag burns done & a communist, Marinus van der Lubbe is found outside with matches. Hitler claims it is a communist plot.

Year 10	Term 3	Knowled	ge Or	ganiser
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	Key Terms	Definitions	
	Cabinet	The group of senior politicians who are responsible	
		for controlling government policy	
	Enabling Law/Act	A law which allowed the Nazis to make their own law	
1		without consulting the Reichstag	
	Gestapo	Secret police	
	Fuhrer	Hitler's new title meaning leader	

28th Feb: Hitler asks Hindenburg to pass a special emergency 'Protection Law' to deal with Germany's problems

March 1933: the law for the 'Protection of the People and State' banned leading Communists from taking part in the election campaign, 4000 communists jailed & their newspapers shut down.

5th March: the Nazis get more votes in the election but still not a majority

23rd March: The Centre Party joins with the Nazis, giving him a majority in the Reichstag. He passes the Enabling Act, giving him the power to make laws without asking the rest of the politicians in the Reichstag.

7th April: The Gestapo was formed & concentration camps set up.

2nd May: Trade unions banned

14th July: all political parties banned apart from the Nazis. Anyone who trying to set up & run a political party would go to prison for 3 years.

30th June 1934: Night of the Long Knives

2nd August 1934: Hindenburg died. Hitler merged the role of Chancellor & President & became Fuhrer. The army swore an oath of loyalty to him personally.

The Night of the Long Knives

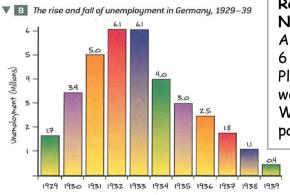
Rohm, the leader of the SA wanted to join it with the army. This would make him very powerful, which alarmed Hitler. The army leaders did not want to be under Rohm's control. There were also rumours that Rohm wanted to seize power.

 30^{th} June 1934: Hitler purged the leaders of the SA, key politicians & other opponents.

Impact: Hitler had eliminated many people who he saw as a threat. The SS, led by Himmler would now be responsible for Hitler's security. Hitler was open about what he had done & he literally got away with murder.



History: Dealing with Unemployment & Work



Reducing Unemployment
National Labour Service (RAD)
All men aged 18-25 had to spend
6 months in the RAD
Planted forests, dug ditches &
worked on farms
Wore uniforms & lived in camps,
paid pocket money.

Public work schemes June 1933: Nazis ordered the creation of autobahns. Nearly 100,000 employed. By 1938, 3,800km completed. Schools & hospitals also built.

Rearmament: thousands of new jobs were created to supply the armed forces with weapons. Factory owners & businessmen made a fortune. Conscription increased the size of the army from 1000,000 to 1,400,000 men.

BUT invisible unemployment: Women & Jews who were sacked from their jobs were not counted in the unemployment figures. Part time jobs were counted as full time.

Did Hitler make Germany self-sufficient?

1933: Schacht appointed Minister of Economics. He signed deals with other countries in South America & south-east Europe to supply Germany with raw materials in return for German made goods. But Germany was still dependent on raw materials from foreign countries. Schacht was replaced by Goering.

1936: Goering introduced the Four Year Plan to get Germany ready for war. This aimed to increase military production. Ordering weapons, uniforms & equipment created jobs. High targets were set & achieved in industries such as steel & explosives but not in other key areas such as oil production. Germany was still not ready for war in 1939. Substitutes were developed for goods that were difficult to find e.g. making petrol from coal, coffee from acorns & cotton from pulped wood.

Year 10	Term 3 K	nowled	ge O	rganiser

Key Terms	Definitions	
Autobahn	Motorway	
Rearmament	Building up stocks of weapons	
Conscription	Forcing men to join the army. All men aged 18-25 were	
	required to serve for 2 years	
Invisible	When the Nazis hid or changed unemployment figures	
unemployment	to make them look better	
Self-sufficient	Having a 'closed' economy, where Germany would not	
	need to trade with other countries; producing all its	
	own goods	

Did The Nazis Help Farmers?

- ✓ Hitler cut farmer's taxes & he guaranteed farmers could not be thrown off their land if they got into debt
- Farmers were prohibited from dividing up their land & giving a part to each of their children & as a result some famers argued their children were forced to leave the countryside to work in cities

Were people better off under the Nazis?

- · More people were working
- German Labour Front (DAF) replaced trade unions & promised to protect the rights of workers & improve conditions. It ran:
- Beauty of Labour: a scheme to improve the working environment
- Strength through Joy: a scheme which organised leisure activities to encourage hard work.
- There was also a scheme to help people save for a car. No one ever received one.
- Wages didn't increase, workers lost rights as trade unions banned, workers couldn't quit without the government's permission & were banned from striking.
- Food cost more & wages didn't increase for many.





History: War, Women & Children

Key Terms	Definitions	
Hitler Youth	Nazi youth groups	
Total War	War When country's economy is geared towards providing	
	the resources needed to supply the armed forces	

The Impact Of War

At first the war went well & Germany benefitted from the resources & luxury goods taken from the conquered countries. 1941: Germany invaded the USSR & started to lose.

- · Severe food shortages, clothing was rationed.
- From 1942 the country was organised for Total War.
 Factories opened for longer, leisure activities were stopped & women were drafted to work in the factories. Foreign workers were used as slave labour in factories.
- The Allies bombed German cities. Electricity & water supplies were affected, as was transport. Large numbers of refugees left their homes seeking safety.
- Support for the Nazis started to weaken.

Youth Groups

1922: Hitler Youth Organisation set up.

Boys taught military skills, girls taught how to be good wives & mothers.

1933: all other youth groups banned (e.g. cub scouts).

Year 10 Term 3 Knowledge Organise

1936: Law for the Incorporation of German Youth gave Hitler Youth equal status to school & home (HY was as important as the other two).

1939: membership of HY made compulsory.

Children expected to attend meetings several times a week, weekends were spent camping. Children were encouraged to inform on their parents & teachers. Not all children joined. Edelweiss Pirates & Swing Youth - both gangs which refused to conform. They went camping, sang anti-Hitler songs & sometimes attacked HY groups.

The Young

- Hitler wanted to brainwash the young into following his beliefs. They would continue to follow him for the rest of their lives.
- School subjects were changed e.g. History taught that the Germans had been badly treated in the ToV. Race Studies (Eugenics) taught Nazi race theories such as Aryans were the superior race.
- All teachers had to join the German Teachers League & any who refused to teach as the Nazis wanted were sacked.
- Adolf Hitler Schools were set up for future Nazi leaders. **Universities**: Between 1933 & 1934 15% of all university professors were replaced, 1/3 for racial reasons & $\frac{1}{2}$ for
- Many leading academics left the country e.g. Albert Einstein.
 University courses were changed to teach Nazi ideas.
- The Nazis didn't see university as a particularly important & fewer Germans attended during the Nazi years.



Women

- Nazis wanted to raise the birth rate & encourage women to stay at home
- Kinder, Kirche & Kuche (children, church & cooking)
- Many women were sacked from their jobs
- Social controls were introduced e.g. women banned from smoking, wearing trousers
- Marriage loans encouraged women to have children & women with large families were rewarded with the medals
- Birth rate did increase
- During the war, the Nazis needed women in the factories & working, but women were not called up to work.

political.



History: Religion & Hatred

Christianity

Religion important feature of German society Some Christian & Nazi views were similar e.g. both believed in the importance of marriage, the family & moral values Both disliked communism.

Catholic Church

1933: Hitler & the Pope signed the **Concordat**. Hitler soon broke this agreement & started arresting Catholic priests & closed down Catholic youth groups

1936: Pope issues 'With Burning Anxiety' saying the Nazis were hostile to the church.

1941: Archbishop Galen openly criticised the Nazis for their use of **euthanasi**a & concentration camps. He was put under house arrest. <u>Protestant Church</u> - some Protestants supported Hitler. They were known as '**German Christians**' & were led by Ludwig Muller. They often wore Nazi uniforms & placed Mein Kampf next to the Bible. The Protestant **Confessional Church** criticised the Nazis. Led y Pastor Martin Niemoller. Around 8000 pastors including Niemoller were arrested.

The Nazis & other religious groups

About 1/3 of Jehovah Witnesses died in concentration camps because of their pacifist beliefs

Salvation Army & Christian Scientists also targeted

Persecution of racial groups

Hitler believed some races were superior to others. Germans were the master race, with the right to dominate other inferior races such as Jews & gypsies.

Undesirables such as tramps & beggars weakened the nation. Problem families, prostitutes were also sent to the camps. Around 350,000 physically & mentally disabled people were forcibly sterilised. From 1939 the Nazis started to murder them

rear to reim o mioricage organise.		
Key Terms	Definitions	
Concordat	An agreement between the Pope & Hitler, not the	
	interfere with each other	
Euthanasia	The deliberate killing of a person	
German	Protestant group, largely under Nazi control	
Christians		
Confessional	ssional German Protestant group determined to have nothing to	
Church	do with the Nazis or German Christians	
Undesirables	People who the Nazis saw as weak or a burden on the	
	state	
Forcibly sterilised	Operating on people to prevent them from having	
	children	

Laws against Jews

March 1933: all Jewish lawyers & judges sacked April 1933: All Jews banned from sports clubs

Jan 1934: all Jewish shops marked with the star of David

Sept 1935: Nuremburg Laws banned marriages between Jews & non-Jews. Jews not allowed to vote

Nov 1938: Jewish children banned from schools. Kristallnacht: Jewish homes, synagogues & businesses attacked. Around 100 Jews killed & 20,000 sent to concentration camps.

April 1939: Jews could be evicted from their homes for no reason

Anti-Semitism during the Second World War

Year 10 Term 3 Knowledge Organise

Anti-Semitic policies were introduced into the countries occupied by the Nazis

Jews in eastern European countries were placed in ghettos or sent to camps. Execution squads shot & gassed as many Jews as they could find. In 1942 the Nazis introduced the Final Solution'. Extermination camps were built & Jews from all over Europe were transported to them.

Jewish resistance

Some Jews fought back. Some escaped to local forests & formed resistance groups which attacked German soldiers. The Warsaw Ghetto Uprising of 1943 lasted 43 days before it was put down.





History: The Terror State

The police state

Concentration camps: held 'enemies of the state' for any length of state. The aim was to 'correct' people who were not doing what the Nazis wanted. Inmates were forced to work hard & could be killed. The SS: originally were Hitler's personal bodyguards, led by Himmler. They looked after security & ran concentration & death camps. Police & courts: the police ignored crimes committed by Nazis. All top jobs in the police were to Nazis. Courts were under Nazi control & the death penalty could be given for even telling an anti-Hitler joke. The Gestapo: they spied on people, tapped telephone calls & had the power to arrest & imprison anyone without trial. People were encouraged to inform on their families, neighbours and strangers.

Propaganda: Goebbels was appointed Minister of Enlightenment & **Propaganda**. He understood **propaganda** worked best with basic ideas, with short messages & powerful images. The Nazis key messages appeared repeatedly in all forms of media.

Censorship: Anything that was viewed as harmful to the Nazis (books, films, newspaper articles) was banned.

Only positive stories about the Nazis were published in newspapers. All film plots were shown to Goebbels before they were made. Cheap radios meant that the Nazis were able to reached a large amount of the population. Mass rallies were held to celebrate Hitler's greatness.

Resistance & opposition: it was difficult to show opposition to the Nazis. Some people grumbled about them or told anti-Hitler jokes.

Passive resistance: people might refuse to give the Heil Hitler salute or give money to the Hitler Youth.

Open opposition: the Swing Group listened to jazz music & had Jewish friends.

The White Rose group: handed out anti-Hitler leaflets, put up posters & wrote graffiti on walls.

Edelweiss Pirates: a banned youth group, beat up Nazi officials and helped army deserters

Kreisau Circle: army officers, university professors & aristocrats who discussed assassinating Hitler

July Bomb Plot: 1944, von Stauffenberg tried to blow Hitler up but failed.

Key Terms		
Gestapo		
Propaganda	ropaganda The spreading of ideas and information	
Censorship	corship Controlling the information people have access to	
Passive	Refusing to do what you are told, without using	
resistance violence		

How did the Nazis affect the arts & culture?

Chamber of culture set up. All musicians, artists, writers & actors had to be members. If they refused to join they were not allowed to work. All aspects of art & culture had to give the message that Nazi beliefs & ideas were correct.

Cinema: Goebbels directly controlled which films were made. Nazi messages included that German soldiers were heroes, Jews were mean & nasty.

Music: should be German or Austrian. Jewish composers were banned, as was Jazz because it had it's origins among the black people of America.

Theatre: plays had to focus on German history & politics.

Literature: certain books were banned e.g. All Quite On The Western Front (anti-war message). Mein Kampf was the best selling book. Books about race, the glory of war & the brilliance of the Nazis were encouraged.

Design: Hitler did approve of modern design such as Bauhaus, so the movement was closed down

Olympics

- 1936 Berlin Olympics. The Nazis used this as an opportunity to showcase Nazi Germany. Anti-Semitic posters & newspapers were stopped.
- The German Olympic squad came top of the medal table. Hitler claimed this proved his race theories.
- The events were filmed by Leni Riefenstahl, which showed Germany's technological advances to the world.





A01

Develop ideas through investigations and showing understanding of sources





Keywords – add branches to your mind map that include key ideas and words, using one word for each branch will allow you to develop more ideas rather than using a phrase or sentence

Central idea – this is the starting point of your mind map and shows the topic you are exploring. All keywords should link from this idea.

Include images – imagery can convey much more than a word or sentence and can help you to develop your ideas as w



There are several things you must include in your research to show understanding of your chosen artist

Bio – a quick gathering of facts with the artists birth/death, style, important works

Collect images – select images of their work that are relevant and images that appeal to you, comment on why you like them

Analysis – To show understanding of the artist you must discuss their work. This will allow you to explore ideas and consider different options before you begin creating you own art work.

Reproduction – either copy a small piece of their work or work in the artist's style to show your understanding of their Page 35 work

Mood board

Theme – consider your theme, have you got a set idea already or are you happy to collect a wider range of ideas

Use a range of sources – don't find pictures from just one place use different sources like, photographs, wallpapers/fabric samples, lettering, magazines etc...

Pick a style – pull it all together with a colour/theme or style to make your page 'work' as a whole

Apply ideas – your mood board should be a visual

representation of your mind map







Content - Looking at the subject of the work.

What is it? What exactly can you see? What is happening? What does the work represent? What does the artist call the work? Does the title change the way we see the work? What is the theme of the work? Landscape, portrait, journey, moment, memory, event, surreal, fantasy, abstract, message.

Form - Looking at the formal elements.

What colours does the artist use? Why? How is the colour organised?

What kind of shapes can you see?

What kinds of lines and marks does the artist use?

What is the surface like? What textures can you see?

What patterns can you see?

How big is the work?

Light, delicate, layered, strong, rough, dark, peaceful, dripped, textured, scale, vivid, bright.

Process – How the work has been developed and made.

What materials and tools have been used? What is the evidence for how it has been made? Painted, drawn, woven, printed, cast, stitched, constructed, collaged.

Mood – Looking at the communication of moods and feelings.

How does the work make you feel?

Why do you feel like this?

Does the colour, texture, form or theme of the work affect your mood?

Quiet, contemplative, thoughtful, hopeful, peaceful, elated, joyful, reflective.



You don't have to use a specific media in your project, iust show some variation.

For example if an artists uses pen, you could try using, pen, pencil, charcoal, biro, coloured pen etc.

Colour Theory

Primary colours are the three main colours, they can't be made, but are used to mix all of the other colours

Secondary colours are made by mixing two primary colours **Tertiary colours** are made by mixing a primary and a secondary colour

Harmonious colours are next to each other on the colour wheel

Complementary colours are opposite each other on the colour wheel

Tint – when you add white to a colour to make it lighter

Shade – when you add black to a colour to make it darker



Refine ideas by experimenting with appropriate media, materials, techniques and processes



Experimentation

You MUST try things more than once to show improvement and refinement. See how the artist has tried the same sketches in lots of different media and on different surfaces.

Observational Experiments ...

Be brave in your use of media, aim to show off your best skills.

- 1		
	Pencil	
	Biro	
	Pastel (chalk/oil)	
	Coloured pencil	
	Acrylic paint	
	Watercolour	
	Monoprint	
	Collograph	9747
n	Card construction	

The basic tool for drawing, can be used for linear work or for shading Drawings can be completed in biro and shaded using hatching or cross hatching Oil and chalk pastels can be used to blend colours smoothly, chalk pastels give a lighter effect Coloured pencil can be layered to blend colours, some are water soluble A thick heavy paint that can be used smoothly or to create texture A solid or liquid paint that is to be used watered down and layered Where ink is transferred onto paper by drawing over a prepared surface A printing plate constructed of collaged materials

		returning to gottine.	
†	Med	ia	The substance that an artist use to make art
ee e	Mate	erials	The same as media but can also refer to the basis of the art work eg, canvas, paper, clay
	Tech	niques	The method used to complete the art work, can be generic such as painting or more focus such as blending
	Proce	esses	The method used to create artwork that usually follows a range of steps rather than just one skill

Sculptures created by building up layers of card or

fitting together



Take your own photographs and work from them as much as possible. Taking your own photographs will allow you to create a more personalised response.

Create both primary and secondary studies.

A03

Record observations, ideas and understandings as you develop your work



Create **maquettes** (a miniature scale model) in paper, card, etc to show your ideas.

You may want to produce another mood board or mind map as you develop your project and narrow down ideas.



All ideas and observations **MUST** clearly link to your project/theme. No random art work.

Annotation

Describes writing notes, using images and explain your thoughts to show the development of your work.

You must annotate and reflect on your work as it progresses to show your intentions and ideas.

Step 1 – Describe

What is the image of?

What have you done?

Step 2 – Explain

How was this work made?

How did you produce these effects?

How did you decide on the composition?

Step 3 - Reflect

Why did you use these methods?

Why do some parts of the work 'work' better than others?

Why might you do things differently next time?

How to 'record'

Observational drawing	Drawing from looking at images of objects
Primary observation	Drawing directly from looking at objects in front of you
Secondary observation	Drawing from looking back at images of objects
Photographs	Using a camera or smartphone to take pictures to draw from (this is also classes as a primary observation)
Sketches	Basic sketches and doddles to show undeveloped and initial ideas.
Annotations Page 37	Writing about your art work



Avoid sticking with your first idea. Sometimes your initial idea is worth pursuing but before a final piece is decided upon you should have considered at least three different design ideas.

A04

Present a personal and meaningful response that realises intentions and shows an understanding of visual language

Telling a story with your art and sketchbook, using your work to convey a message instead of relying on words.

Sketchbook checklist

- ☐ Have you demonstrated what the starting point, theme or brief means to you personally?
- ☐ Have you established a link between the starting point and your chosen sources?
- ☐ Have you reflected your understanding of the social and cultural context?
- ☐ Is there a clear link between your sources and your own work?
- ☐ Is it clear what ideas or techniques from your sources you have developed?
- ☐ Have you selected and presented your studies carefully?
- ☐ Made use of your discoveries?
- ☐ Made clear links between your work and that of other artists, designers and craftspeople?
- □ Collected images to show your inspiration and stimuli?
- ☐ Made use of drawings, sketches, jottings, photographs and experiments with different media?
- ☐ Annotated images to explain how they fit into your development process?
- ☐ Demonstrated your understanding through correct use of art and design vocabulary?
- ☐ Shown experimentation and selection of the most successful results for your project?
- ☐ Organised your recordings and presented them to show and explain your decisions?
- ☐ Clearly linked all of your work to your starting point?

Thinking about your Final Piece

- Use materials and media that you can control well and have practised with.
- Your final piece should show influences from the artists you have studied
- Remember to think about composition rules when designing your final piece

Present your work well, this doesn't mean fancy background. Just take care on every page.

A rough idea	A visual Maquette	Final piece
A basic sketch of a final idea	A small image or model created in materials that replicate the	An image or sculpture pulling all prep work together.
	end result	

The Formal elements of Art				
Tone	How light or dark something is			
Line	A mark which can be long, short, wiggly straight etc			
Colour	What you see when light reflects off something. Red, blue and yellow are primary colours			
Texture	How something looks or feels e.g. smooth or rough			
Pattern	A symbol or shape that is repeated			
Shape	A 2D area which is enclosed by a line e.g. a triangle			
Form	Something which has 3 dimensions e.g. a cube, sphere or a sculpture			

Da Vinci Acade my
A L.E.A.D. Academy
The Grid method is a tool

Another method to consider when drawing is using the grid method.

The **Grid method** is a tool used to help you draw whilst keeping everything in proportion. It allows you to break down drawings into lots of small squares. Therefore you can concentrate on smaller sections at a time. The more squares the use the more accurate you can be.

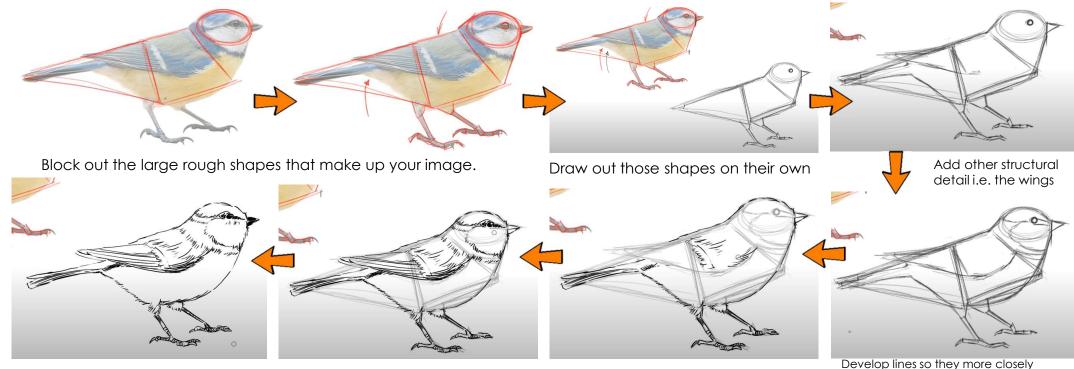


Drawing

Constructing a drawing is important to ensure you keep correct proportion. Use simplified shapes to develop the structure of your drawing. Start with the largest structures first.

- Large rough shapes block out the most basic version of your drawing
- 2. Accurate shapes Refine shapes so that they resemble the object more closely
- 3. **Detail** add the detailed sections of the drawing like fine lines etc (then apply tone once drawing is completed)

Take a look at the images below to see how it is done



Completely remove any construction lines.

Rub out the large rough shapes so you can barely see them and draw using lines that show the texture of the finished object, in this case a bird.

resemble they way the final image will look. See how the breast of the bird is now curved, not straight and angular.



Grades of pencil

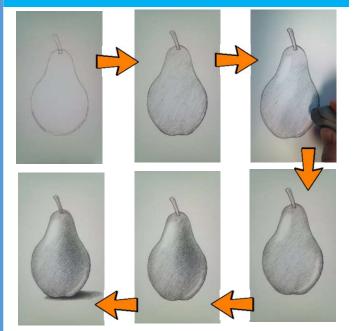
Pencils come in different grades, the softer the pencil, the darker the tone.

H=Hard B=Black

In art the most useful pencils for shading are 2B and 4B. If your pencil has no grade, it is most likely HB(hard black) in the middle of the scale.



When applying tone to a drawing you must remember to apply base shades first to add depth and suggest form. Secondly, add mark making to develop the texture and fine details line work to finish.



1d lone

Making things look 3D: To stop drawings looking flat use a range of tone and marks. Pressing harder and light and layering with your pencil creates different tones and adds depth.

Mark Making: To make drawings look more realistic try to use different marks on the surface. You can do this by changing the direction, pressure or length of your marks. Mark making can be used in conjunction with shading or separately.



Directional shading is shading that follows the contours of an object. Using this method makes your work appear more realistic. Look at the portrait, see how the shading changes direction and curves with the shape of the figure. This fechnique should be used on all drawings. See how it has been used on the spheres below.







Tonal shade

Produce a range of tones by varying the pressure and layering - consider using softer pencils for darker shades

Mark Making - techniques

Cross hatching

Stippling

Hatching

Contour lines



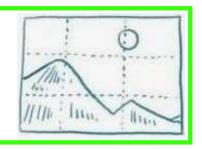
Scribble

Pattern

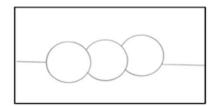


Composition

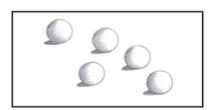
Rule of thirds – Place focal elements (objects) at 1/3 or 2/3 of the image horizontally or vertically, not in the middle



Creating a sense of **space and depth** is important in art work to make it feel sophisticated and well thought out. Knowing how to raise objects over the top of each other is important in communicating space and depth to your viewer.



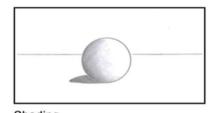
Overlap
One object appears to be behind the other



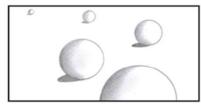
Placement
Objects higher in the picture appear to be in the distance



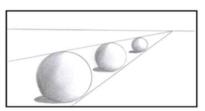
Value and Focus Lighter values and less details suggest distant objects



Shading Light and shadow create the illusion of form and space



Size
Small objects look distant, while closer objetcs should be larger

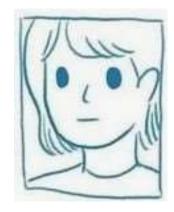


Linear Perspective
Parallel lines and edges seem to go toward one or more vanishing points

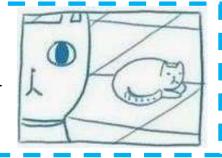
Repetition and grouping
Try grouping objects in odd numbers, this often looks better than an even number of

objects.

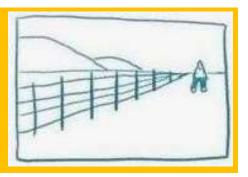
Simplify and fill –
Enlarge or crop the image to fill the space and draw your viewers attention to that particular object



Balance elements – If there is an emphasis on one side of the piece balance it out with smaller objects on the other side.



Line – Use lines to draw the viewers eye across the work. The lines don't have to be straight, think about using S or C shaped lines.



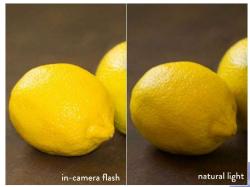


Light

Use natural light as much as possible. The best times for shooting are sunrise and sunset. As far as possible avoid taking shots in artificial light i.e. bedroom lights or with flash.

Noise

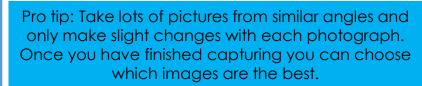




Notice that most of the tone is removed with flash on

Noise

Avoid digital zoom, it can make images grainy, this is called noise in photography. Try to get physically closer to your subject instead (if you can).



No noise

Taking a Good Photograph

Taking a good photograph will be key to your project. You will be using these images to draw from.

Photography is another great way to record (AO3) the work you are carrying out.

If your picture is blurry, it means you are probably too close to your subject. Move back a little bit until your image becomes sharper.



When there is less light your camera finds it harder to focus and often it will create an image with 'camera shake'. If you need to take an image in low light try to rest your camera of a flat surface to help steady it.

Think – don't just point your camera and click. Think about what you want to take a picture of, is it...

- Texture? Get in really close, just make sure your picture is focused and not blurry.
- A portrait? Make sure nothing distracts from your main subject, try to use a plain background,
- Landscape? Then hold your camera steady, stand far back and line up your scene with the rule of thirds.

Grid lines – on most phones/cameras you can go into the settings and add grid lines. Using these grid lines will help you to create a successful composition and therefore photograph. Check out the 'Composition' page and look at the 'rule of thirds'.





To switch the grid on ...

iPhone: Go to "Settings," choose "Photos & Camera," and switch "Grid" on.

Samsung Galaxy: Launch the camera app, go to "Settings," scroll down and switch the "grid lines" option to "on."



Tape Masking

- · Tape of sections of your paper with masking tape.
- · Paint over the tape and let dry.
- · Peel tage off and reveal white paper underneath





Too much water!



Salt

- · Sprinkle salt into a wet (still shiny) wash of watercolor paint.
- · The results will appear when dry.

Paint a



Consider using some of the watercolour techniques mentioned here to give your work texture and visual interest.

Painting with acrylic - In stages

Once you have finished drawing out what you want to paint you should

follow these rules when painting with acrylic

Painting with watercolour - Tips

- If water is pooling at all on the paper, you generally have too much water, it will be harder to control the flow of the paint.
- Use two jars of water, once for cleaning your brushes and one with clean water to mix paints.
- Use thicker 'watercolour paper' normal paper will become wavy as it cannot handle so much water.
- Tape down your paper before, during and after painting until your image is completely dry, this way you will have nice flat paintings.
- Let you watercolour dry between layers,
- Use a layering technique, just remember that you cannot put lighter colours over darker colours when using watercolour, work from light to dark.

Crayon Resist

. Draw with any color of crayon on dry paper. . Paint wet watercolor over crayon to reveal drawing



Apply tonal range,

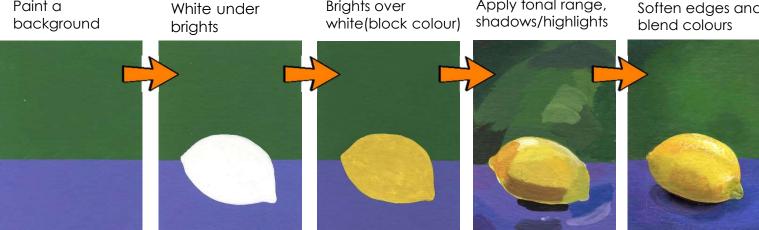
Wet-in-Wet

- Apply clean water to your paper.
- efore the water dries, load up your brush with paint



Brights: a colour that is lighter than your background

Soften edges and



Briahts over

Painting

Dry Brush

- . Start with a dry brush and almost dry paint.
- Run your brush over your paper to create grass or

. Load your brush with plenty of wet paint. Smooth you brush over the paper with swooping strokes.





Painting in layers

Painting, just like drawing (or making a sandwich) needs to be done in layers.

You must start from the base of your image and work forwards. Think about background, midground and foreground

- We can add different materials or techniques individually one over the other.
- waiting until one layer is dry before applying the next.
- Each layer could be the same technique as before, or a different one.
- A layer doesn't have to cover the surface in its entirety.

A layer can consist merely of one small dab of paint, or can involve thick overlays covering the whole surface. A technique does not have to be applied over the whole surface to qualify as a layer.



Colour Theory

Colour Theory

Primary colours are the three main colours, they can't be made, but are used to mix all of the other colours

Secondary colours are made by mixing two primary colours

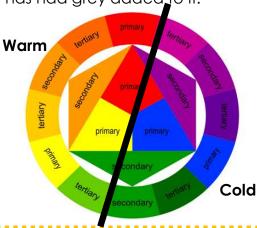
Tertiary colours are made by mixing a primary and a secondary colour

Tint – when you add white to a colour to make it lighter

Shade – when you add black to a colour to make it darker

Hue – any colour that appears on the colour wheel, note that neither black nor white appear on there

Tone – used to describe a colour that has had grey added to it.



Complementary colours are opposite each other on the colour wheel. When placed next to each other, there is an extremely strong contrasting and vibrant effect. If overused, your painting may become jarring and uncomfortable to look at.

You should select a dominant colour and use the other colour as an accent.



Harmonious colours are relaxing colour combinations using colours positioned next to each other on the wheel. Harmonious colour combinations were famously used by impressionist artists such as Claude Monet to create beautiful harmonious paintings. It is often most effective to select one dominant colour, a secondary colour and a third accent colour.

Colour and emotion

Colour has a powerful influence over human behaviour, to the extent it can manipulate your perception of what is actually there.

- Red: Passion, love, anger and danger
- Orange: Vitality, creativity and activity
- Yellow: Energy, light and hope
- Green: Health, nature and wealth
- Blue: Trust, security and spirituality
- Purple: Creativity, royalty and wealth

We can use these psychological triggers to influence how we want the viewer to perceive the painting. If you want the viewer to have a passionate and aggressive response, then you should be utilizing reds and other warm colours. If you want a calming scene, then greens and blues should be utilized.

What can I actually see?

We all have preconceived ideas of what colour an object should be, i.e. a tree is green. But that is not always the case. If you are not careful and do not observe the tree for what it actually is, then you may be drawn towards adding more green than is necessary. This is because we forget to observe and we try to paint from a memory or idea. - Paint what you see, not what you think.





Construction Design Management (CDM)

- ·Plan the work so the risks involved are managed from start to finish
- have the right people for the right job at the right time
- cooperate and coordinate your work with others
- ·have the right information about the risks and how they are being managed
- communicate this information effectively to those who need to know
- ·consult and engage with workers about the risks and how they are being managed

Gantt chart Important points:

- ·Gives team a reference point
- Regularly updated by planner
- ·All factors that influence the procurement, design and construction processes are factored into the plan
- ·Can be produced using powerful software or excel spreadsheets or by hand.

Planning Permission:

Planning permission is managed by the local Council, whereas Building Regulations are managed by private companies such as Inspectors

Building regulations: Building Regulations are minimum standards for design, construction and alterations to virtually every building.

The Building Regulations 2010 cover the construction and extension of buildings and these regulations are supported by Approved documents.

What is the difference between them?

Planning permission relates to the principal of development, covering issues such as siting, scale and appearance, whereas the Building Regulations deal with the technical issues such as structural stability, fire drainage and energy conservation.

Building Regulations: how do they apply to renovation and conversion projects?

Some homeowners are unaware that they will require Building Regulation approval for work that they are planning to carry out, believing that once they received Planning permission (if it is required), that is all that is required do and they can carry on with the building work.

Summary: The planning of projects remains the same whether a refurbishment, extension, new build or infrastructure project.





Project planning: The pre-construction period, construction phase and maintenance period will be planned in detailed schedules and programmes of work at an early stage, to help inform, guide and check the procedures, activities and processes of construction and quality checking during the project.

Building trades: trades (as carpentry, bricklaying, plumbing) that are essential to and chiefly practiced in connection with building construction.

Professional Tradesman: Generally a tradesman that has been educated to degree level such as an architect, site manager or Civil Engineer.

Three Stages of Drawing-

Preliminary Conception-Drawn by hand then reworked digitally
Tender Drawings- These show more detail and have been approved by the client
Construction Drawings- Accurate drawing ready to be used by contractors

Common Factors That Effect

Location - Working in remote locations or far away from an organisation, head office can be costly

Value of project- A large multi million pound office development may be impossible for a small contractor to attempt due to restricted cash flow

Size of the project- A large building maybe too complex for a small company to manage resources without needing more staff

Availability of resources-Shortages of labour, plant or materials are common when constructing buildings, when there is a demand for buildings prices increase

Site clearance: This can happen once permission to proceed and risk assessment taken place. The site clearance is a vital activity that allows controlled waste removal. Waste that needs to be removed in a controlled manner: Vegetation, asbestos, contamination, redundant buildings and infrastructure, and waste to be removed from site in a controlled manner and taken for disposal or recycling locally. Legislation linked to the removal of asbestos:

Control of Asbestos Regulations 2012

Tests completed: •Contamination e.g. asbestos or oil in the subsoil, •Presence of tree roots, water sources and antiquities.
*if it is a historically significant site an archaeologist will attend





Scaling: an important tool that is used in the construction industry to help you comprehend the ratios of measurements to a consistent scale. The scale is often agreed at a scale that is comfortable to the persons eye.

Scale	Equal to	Use
1:50	For every 50mm this is equal to 1mm on the scale rule	Plans, evaluations and sections
1:100	For every 100mm this is equal to 1mm on the scale rule	Plans, evaluations and sections
1:200	For every 200mm this is equal to 1mm on the scale rule	Site plans

Key terms

Substructures: all structures below the superstructure, which in general terms is considered to include all structures below ground level but including the ground floor bed.

Superstructures: all structures above ground level both internally and externally

'Soft Landings': The building logbook and manuals help the owners optimise its energy consumption, owners and new owners know and understand how the building works and how it should be maintained.

Percentages: Percentages are a common means of understanding the specific part of a material that has been formed into products or requires some form of division.

Scaling: an important tool that is used in the construction industry to help you comprehend the rations of measurements to a consistent scale. The scale is often agreed at a scale that is comfortable to the persons eye.

Best value: is the procurement process by which the buyer investigates the value of these goods and services not just by its commercial cost/value £ alone

Tolerances: are the primary quality control measure used to set the standards for the design and construction process, and give a definitive value that the tradesperson must work to.



Calculations needed: Content:

- ·Area, volume
- ·Percentages, scaling
- ·Best value, tolerances
- ·VAT, tender price

Resources:

- ·Plant
- ·Labour
- Materials

Client responsibilities

- Satisfy themselves that the project is feasible in
- Choose experienced construction professionals
- •Trust the selected team to procure, design, construct
- •Pre-determine what the possible risks are that may threaten the development and act when appropriate.

Primary Sources of information: Status of drawing

The Architect, checks that the client or user of the building is satisfied and that it is compliant with the specialist members of the team

This allows the team to understand that the drawing has been developed, checked and double-checked by everyone responsible for designing and coordinating the drawings.

Status A - highest level of drawing approval

Status B - moderate level of approval and indicates there are minor changes such as spelling still to be made, but the drawing can be used for manufacturing or construction purposes, providing any recommendations are followed.

Status C - means the drawing is not in a condition to be used for construction or manufacturing purposes

Why are there so many levels of approval?

To make sure the complex design process is compliant. Any mistakes at this stage will be very costly in terms of money and time. As drawings can take several days or weeks to revise, the status helps the builder know if they can order materials and therefore save time on the programme.

Secondary Sources of Information

Spreadsheets- Useful in formatting large amounts of data E.g.: dimensions, area, time and cost. Data can be changed and updated easily.

Catalogues- Produced by suppliers or manufacturers to offer products. Can be produced digitally and issued through social media to compare and contrast different materials.

Suppliers materials lists- These are used to compare the most current and compliant ready equipment and products



The RIBA plan of works is a timetable of how a construction project can be managed and delivered. It shows how there is a cycle of analysis and improvement

Secure Site.

Risks: stealing plant and machinery, tools, belongings sensitive information: electronic data, ID, bank details, personal information

What other primary measures can be added to the perimeter fence to increase security? •Controlled access gates •Guardrooms

Secondary measures can also be added: •CCTV •Reactive guarding arrangements e.g. alarm, security guards, guard dogs

By applying the principle of **SLAM** we can proactively or reactively understand the measures that need to be used to minimise the risk to security



STOP: Engage your mind before your hands. Look and think how security could be compromised. Always stay alert!



LOOK: At your workplace and find the security hazards that may impact you and your colleagues. Report your findings to your supervisor. Look for gaps!



ASSESS: The effects of hazards may have on you, work procedures, pressures, colleagues and the environment. Do you have the knowledge, training and tools to do the task? Can theft, vandalism or privacy occur? Secure valuables when they are left unattended.



MANAGE: If you or your environment doesn't feel secure or if you suspect there could be an issue then stop working. Tell your supervisor what you think the issues are.

Potential effect of factors on project success

- •Internal e.g. lack of qualified and certified key personnel, sourcing of finance, security
- •External e.g. penalty clauses, weather conditions

Key terms

Infrastructure: important building and transportation network Validate: Prove the accuracy

Transparency: Financial

decisions must be clearly recorded and follow UK and European procurement law. This is so investment decisions can be made Feasibility: Deciding whether the building is either practicable or will proceed

Lead time:

The time taken between ordering an item and it being delivered. Resources such as windows are usually made to order, which would require planning to make sure they arrive when they are needed to ensure work isn't delayed.

Section 106

A Section 106 is a legal agreement between an applicant seeking planning permission and the local planning authority, which is used to mitigate the impact of your new home on the local community and infrastructure. In other words, a new house will mean another car(s) on the roads and perhaps your children will attend nearby schools, putting a little more strain on local services



Good food hygiene practices are necessary in order to produce, make and supply food that is safe to eat. This involves more than just being clean. A simple way to remember is the **4C**s:

- cleaning;
- cooking;
- chilling;
- cross-contamination.



Keyword	Meaning
Cross Contamination	The transfer of bacteria from one source to another. Usually, raw food to ready to eat food but can also be the transfer of bacteria from unclean hands, equipment, cloths or pests. Can also relate to allergens.
Danger zone	Bacteria will multiply most rapidly between 5-63°C.
Optimum temperature	Bacteria that cause food poisoning reproduce around body temperature (37°C).

Sources of Food Contamination

Physical: A foreign object has dropped into the food, e.g. hair, jewellery, finger nail, machinery components.

Chemical: Cleaning products & pesticides causing liver

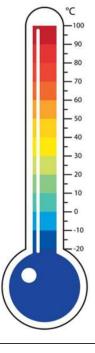
damage, internal burns & nerve damage.

Biological: Bacteria, viruses, moulds & fungi which cause food poisoning.

Temperatures to remember

To reduce the risk of food poisoning, good temperature control is vital:

- 5-63°C the danger zone where bacteria grow most readily.
- 37°C body temperature, optimum temperature for bacterial growth.
- 8°C maximum legal temperature for cold food, i.e. your fridge.
- 5°C (or below) the ideal temperature your fridge should be.
- 75°C if cooking food, the core temperature, middle or thickest part should reach at least this temperature.
- 75°C if reheating food, it should reach at least this temperature. In Scotland food should reach at least 82°C.



Causes of Food Spoilage	
microorganisms	Bacteria, yeast, moulds, fungi.
enzymes	Speed up the process of decay.
insects and rodents	Leaves behind bacteria, urine and
	faeces.
chemical reactions	Reaction between food, oxygen
	and moisture.
environmental factors	Warmth, pH, oxygen and moisture.
time	Speed of spoilage, hygiene,
	correct storage and temperature.

Keyword	Meaning
HACCP (Hazard Analysis Critial Control Point	A system for recognising and assessing food hazards and controlling the hazards to keep food safe
Critical Control Point	Identify the hazard which must be controlled in order to remove or reduce it to a safe level

Signs of Food Spoilage:

- discoloration
- visible mould
- changes in texture
- unpleasant odour
 - changes in flavour
- 'blown' cans and jar lids

High-Risk Foods – short shelf life

- cooked meats, fish and poultry
 - dairy products
- gravies, stocks and sauces
- shellfish
- cooked rice

Ambient Foods – can be safely stored at room temperature

- tinned vegetables
- crisps
- cereal
- dried pasta
- sugar

'Use By' Date

- short shelf life
- high-risk foods
- Given as a safety warning.
- If consumed after the date, there is risk of food poisoning.







Food Packaging Date Marks

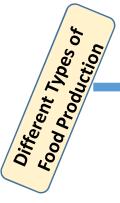


Grown

Keyword Meaning **Genetically modified** A food which has had its genes altered to give it a useful characteristic such as improving its growth or colour **Intensive farming** Uses chemicals to achieve maximum yields (can also be known as conventional farming

Where does our food come from? All our food comes from plants and animals





Red Tractor is a food assurance scheme showing the food has been farmed, processed and packed in the UK. It is traceable, safe to eat and has been produced responsibly.

The animals have access to outdoor space and can live naturally. The welfare standards are high.

Foods that have this label mean the

animals have had a good life and have been treated with respect

This means the food has been produced without using any chemicals. Only natural fertilisers and pesticides are used to help the crops grow.

The farmer gets a fair price for his produce and fair working and living conditions.

Using sustainable methods of fishing to prevent the decline in number of fish in our seas.

Foods:

Milk, cheese, yoghurt, poultry

Foods:

Eggs, meat

Foods:

Eggs, meat & fish

Foods:

Eggs, chicken, fruit

and vegetables

Foods:

Sugar, bananas, coffee, tea

FAIRTRADE



Best Dafava **BEST BEFORE**

Date

Mark

Use By

USE BY

01-01-07

01-01-07

Page 51

A quality date. Food can still be eaten after but the quality will be reduced. E.g. cereals or biscuits will not be as crunchy.

Description

A safety date. Used on high

risk foods that usually need

to be stored in the fridge. If

you eat the food after this

date you risk food

poisoning.

Food Examples

Meat Fish Seafood Cheese Milk

Cream

Bread

Sugar

Flour

Pasta

Cereals

Foods:

Fish, seafood



Da Vinci Academy

A L.E.A.D. Academy

Foods and Cuisines from Around The World



A cuisine is a style of cooking from a particular country or region of the world. Different cuisines have different ingredients, styles and preparation & cooking techniques. Some examples are shown below.

Staple foods are crops that grown in particular parts of the world due to their climate and conditions. E.g. wheat in Europe, rice in Asia or maize in South America.





Roast dinner. Fish & Chips. Bakewell Tart.















Spring Rolls. Stir fry. Sweet & Sour. Chow Mein.









Chilli Con Carne, Burritos, Tacos, Salsa, Guacamole







Environmental Issues With Food Production

Environment	Refers to the air, water and land where people and animals live.
Sustainability	We need to look after our environment by using less energy, reducing the consumption of water, avoiding waste and recycling/reusing as much as possible.
Carbon footprint	A measure of the impact your personal lifestyle has on the environment (including your food choices).
Landfill	Nearly a third of all food we produce ends up in landfill sites where it gives off methane gas as it decomposes. This adds to carbon emissions.

Composting - Left over food can be composted for the garden. (vegetable peelings, fruit waste, teabags, eggshells, toilet roll tubes, egg boxes etc). Meat, fish and dairy products cannot be composted.





Reuse left over food to make another dish. E.g. left over chicken in a curry, fruit in a smoothie.

Recycle/reduce as much packaging as you can. Reuse jars/containers, use bags for life, avoid buying over packaged food.





the ultimate in local, seasonal, unprocessed food



What can impact our food choice?

Food choices for a balanced diet depend on many factors, such as:

- advertising and other point of sale information;
- cost and economic considerations;
- · cultural or religious practices;
- environmental and ethical considerations;
- food availability;
- · food preferences;
- · food provenance;
- health concerns;
- individual energy and nutrient needs;
- · portion size;
- · social considerations.

Environmental and ethical considerations

Some considerations when buying food might be:

- fair trade;
- local food:
- genetically modified (GM) food;
- organic food;
- free range.

Health concerns

People may choose their food based on their own or their family's health and wellbeing:

- allergy and intolerance, e.g. lactose intolerance, coeliac disease, wheat allergy, diary allergy;
- body image;
- health issues, e.g. coronary heart disease, type 2 diabetes, inflammatory bowel disease, over or under malnutrition;
- mental health.

Food Choice – KEY WORDS		
Keyword	Meaning	
Advertising	Advertising is a form of communication for marketing and used to encourage, persuade, or manipulate an audience to continue or take some new action.	
Ethical	Relating to personal beliefs about what is morally right and wrong.	
Food certification and assurance schemes	Defined standards of food safety, quality or animal welfare.	
Marketing	Promoting and selling products or services, including market research and advertising.	
Religion	A particular system of faith and worship.	
Seasonal food	Food grown at a particular time of year	

Cultural or religious practices

People around the world choose to eat or avoid certain food due to their cultural or religious practices.

Religion	Pork	Beef	Lamb	Chicken	Fish
Islam	Х	Halal	Halal	Halal	✓
		only	only	only	
Hinduism	Х	Х	✓	\	✓
Judaism	Х	Kosher	Kosher	Kosher	✓
		only	only	only	
Sikhism	Х	х	✓	>	✓
Buddism	Х	х	х	х	Х
(strict)					
Seventh-	х	х	х	✓	✓
day					
Adventist					
Church					
Rastafari	Х	х	х	х	Х
movement					

Food prices

Food prices can and do change throughout the year and over time. This may be due to a variety of reasons, including:

- climate and weather patterns;
- crop failure;
- crop disease;
- seasonality;
- consumer demand;
- agricultural costs increase;
- fuel prices go up;
- increased use of bio fuels.

Budgeting

There are many things that we can do to spend money wisely on food. Examples can include:

- eating the seasons;
- stocking up on food with a long shelf-life;
- taking time to plan meals and write a shopping list;
- cooking using one pot;
- making fake-aways rather than buying takeaways;
- using leftovers;
- replacing branded items with cheaper items;
- comparing prices and shop around to find the cheapest items;
- growing your own food.

Keyword	Definition
Drive	The part of the race where the
	athlete keeps low and has short
	powerful strides.
Maximal	The largest amount possible.
Pace	The speed at which someone
	moves.
Power	The speed at which strength can
	be used.
Angle	The direction something is
	released at.
Stride	The length of step.
Relay	To send something from one
	person to another.
Performance	The way in which an activity is

Throwing

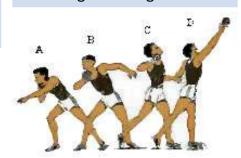
Javelin technique
Grip the javelin in the middle
Turn sideways and extend
arm backwards
The javelin tip should be next
to your cheek
To throw, bring arm forwards
so javelin moves in a straight
line
Lean back and rotate chest
Release at 45 degree angle



Throwing

completed.

Shot putt technique
Hold shot in fingers against
your neck 'clean palm, dirty
neck'
Face backwards
Align toe, knee and chin, and
have a high elbow
Rotate, opening out chest,
releasing at 45 degrees



Sprinting technique

The sprint start:

'On your marks' – set feet with lead leg in front

'Set' – move forward with weight on shoulders raising hips

'Go' – push out off lead leg driving legs and arms forward

Keep head down and body at 45 degree angle Sprint technique

Running on toes and lifting knees high
Use of 'drive' when getting out of the blocks
A straight arm action
Stand tall after 'drive' phase



Middle distance and long distance

Middle distances such as 800m and 1500mand long distance e.g. 500m and 100m usually focus on pacing Pacing is where you don't set off too fast in order to have enough energy to finish the race strongly.

Athletics

Jumping

Long jump technique
Mark out your run up to stop your
stuttering
Jump of lead leg [strongest leg]
Use arms to project body forward
Stretch legs as if jumping over a box
Push forwards on landing



Jumping

High jump technique

The Fosbury Flop is the most effective way to complete the high jump:

Approach on a curve

Take off outside leg, driving the other leg as high as you can

Rotate in the air to land on your back with feet facing the ceiling



Softball Y7

Knowledge Organiser



<u>Keywords:</u>Arm action: pitching motion: official: Athletic stance: Attack the ball: Backhand:,

Scoring System: The aim of the game is to score more RUNS than the opposition, and a run is scored when a player on the batting team advances around all three bases and back to the home base (called HOME PLATE) from whence she started. Unless you hit the ball so far that you can run around all the bases before it's returned (a HOME RUN), you'll probably have to stop at one or more bases on your way around and wait for the next batter to hit the ball so you can advance further. Team with the most runs wins the game.

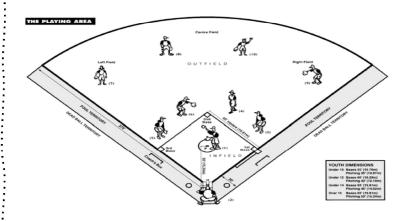
Players:

Most slowpitch softball is played by mixed teams, where men and women play together, usually in a 5:5 ratio. However, this ratio sometimes varies, and slowpitch is sometimes played by single-sex teams as well.

How to get someone out

- 1. If the ball the batter has just hit is caught without first bouncing.
- 2. The ball is thrown to a base before a runner gets there.
- A player running between bases is tagged by the ball (touched by the ball or the glove of the defending player).
- 4. If three strikes are called by the umpire.
- 5. They run more than 3ft (0.9m) out of the base line to avoid being tagged.

Softball playing area: A softball playing area is contained within a 90-degree angle, and is usually called a DIAMOND, because the central part of the playing field – the INFIELD - is diamondshaped. The OUTFIELD extends outward from the infield to a boundary, either actual or notional.



Skills and Techniques

<u>Catching:</u> The right catching skills allow a player not only to catch the ball without getting hurt but also to position. T.P's; Bring hands to chest as you catch, eyes on ball, cushion catch. Pairs to experiment with low and high catches

<u>Throwing:</u> Throwing is one of the two most important defensive skills a player must learn in softball.

<u>Batting:</u> Hitting is probably the most challenging and enjoyable skill to learn in softball. Teaching points; Stance & Grip, bat back in preparation, follow through

<u>Fielding Tactics:</u> To understand the fielders roles and base responsibilities. To perform and replicate a combination of skills to outwit opponents in a game situation

<u>Pitching:</u> Teaching points; grip, step into bowl, must pass between shoulder and knee

Rules:

- 1. Two teams (of nine players) alternate turns at batting and fielding (often called defense).
- 2. The aim for the team batting is to advance a runner around all bases to the home plate to score runs.
- 3. The defending team tries to defend its bases by getting three outs and not allowing the batting team to score.
- 4. The team that scores the most runs in seven innings wins. (A tiebreaker procedure comes into play if the scores are tied after the seventh innings.)
- Each team's innings ends when three of its batters have been ruled out and then the team that was defending goes in to bat.



Tennis

Knowledge Organiser



Keywords:

Deception: Forehand: Backhand: Court: Serving: Net shot:

Hawk eye: Top spin: Back Spin: Co-ordination: Slice

Scoring System-

You need to score four points to win a game of tennis. The points know opponents weaknesses and are known as 15 (1 point), 30 (two points), 40 (three points) and the fourth would result in the winning point and the end of that game. If the scores went to 40-40 this would be known as deuce When a game reaches deuce the player must then win by two clear points.

Skills & Techniques

Forehand Shot: The forehand in tennis is a shot made by swinging the racket across one's body with the hand moving palm-first. Most forehands are hit with topspin because it helps keep the ball from landing outside the court. Backhand Shot: The backhand is a tennis shot in which one swings the racquet around one's body with the back of the hand preceding the palm. The backhand can be a onehanded or two-handed stroke.

Footwork: Keep your feet moving between points; shuffle, and jump up and down — just keep on your toes. A player who is moving their feet is poised to run in an instance.

Anticipation: One of the key abilities of good tennis players is anticipation. It's an ability to predict with very high probability what the opponent will play. ... The player anticipates opponent's shot / tactic and prepares the right response. Volleying: A volley in tennis is a shot in which the ball is struck before it bounces on the ground. Generally a player hits a volley while standing near the net, although it can be executed farther back, in the middle of the tennis court or even near the baseline.

Forehand and Backhand:





Tactics:

strengths Surprise your opponent with spin Aggressive second serve Move into the net Open the court up

Doubles and Singles:

Single tennis Involves two players, one either side of the net. Doubles involves four players two either side of the net.

The court larger for doubles



Rules:

- Alternate serve after games
- Fault and double fault

PLAYER

REFEREE

Scoring

No points are scored = Love

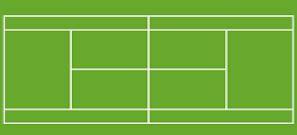
• 1 point scored = 15 points

COACH

FIT 4 LIFE

- 2 points scored = 30 points
- 3 points scored = 40 points
- 4 points earned = set point (set over
- 4. Overarm serving
- 5. 'In or out'
- 6. Once a serve has been made the amount of shots Is unlimited
- 7. A point is won by hitting the ball so the opponent fails to return it to the scoring area

Tennis Court:



Overarm Serving:





Knowledge Organiser

Rounders

ROUNDERS ENGLAND

What is Rounders?

- A sport with two teams with a maximum of 15 players. No more than 9 players on the
- Games are played on a square shaped pitch, divided by posts and boxes.
- Score points by hitting the ball. One point or half a point (Rounder) depending on where the player gets to in the field.
- The bowler bowls the ball to the batter who hits the ball forward on the Rounders Pitch. The batter then runs to as many posts as possible before the fielders return the ball to touch the post the batter is heading for.
- Players are assigned "positions".
- If the batter reaches the 2nd or 3rd post in one hit, the batting team scores ½ a Rounder. If the batter reaches 4th post in one hit, the batting team scores a Rounder
- Games are usually played over 2 innings with the aim of the game to score the most rounders. This is normally 30 "good balls".
- The play should be recorded on an accompanying scoresheet.

FAB FACTS! Bats and balls should You can play be kept dry, to

maintain a good

Deep 2

Deep 3

Running Totals and final scoring

Pitch Layout

Umpire

2nd

Bowler

The game is split into two innings

You can

play in an

adult team

at age 13!

Deep 1

1st

three types of bats. Wooden,

aluminum and nlastic

Invented in Tudor

times.

Players Out

use. This is used to hit the ball. Post - These are normally white and used to

Wait at first -You have hit the ball

'stump' the ball. Stump: This is the motion of the ball

Key Words

Batting Team— This is the team who are

Fielding Team:-This is the team who are in

"OUT" - This means you have been caught

"IN" -This means the umpire has deemed

Obstruction – This is where a player gets in

the way of another player, normally in field.

The player who is obstructed get ½ rounder.

Ball – These can be hard or softer, you need to catch the ball to get someone out.

Bat –There are three types of batt you can

backwards, you have to wait at first post.

batting, normally 9 players.

field, normally 9 players.

or stumped out.

vou are in.

touching the base or post.

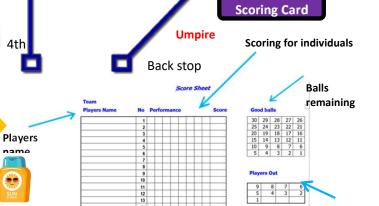
Rounder- This means you have scored 1 (point) called a rounder.

Half a Rounder-This means you have scored ½ (point) called a rounder.

Health and Safety

Before a game, the **umpire** will check not only the pitch but also the players to make sure that: -

- All shoe laces are tied- to stop the player from tripping over
- All hair is tied back- so that no hair gets in the way of your face which could result in you being unable to see.
- All jewellery is removed (including earrings and piercings)- to stop a risk of injury such as piercings being pulled out or necklaces getting caught round necks
- The pitch is safe. No water or rubbish. The posts are secure.
- The ball and the bat, are the right specification.
- Spiked footwear is prohibited. But football boots and astro shoes can be worn.
- Gum shields, shin pads and fingerless gloves CAN be worn.
- It is common to wear rounders uniform, including a skort and matching top.
- You might need to apply sun cream in warm weather.



Exit Routes and Club Information

Solihull Outdoor/Indoor Rounders League

Location: West Midlands Lead Contact: Clair Andrews Email: clairandrews@leagues4you.co.uk

Rounders England

PO Box 4458 Sheffield 520 000 T: 0114 248 0357

E: enquiries@roundersengland.co.uk









Applying the Principles of Personal Training: Unit 3

Learning Outcomes:

A design a personal fitness training programme

B know about the musculoskeletal system and cardiorespiratory system and the effects on the body during fitness training

C implement a self-designed personal fitness training programme to achieve own goals and objectives

D review a personal fitness training programme.

A - Design A Personal Fitness Training Programme

Physical-Related Fitness Components That You Should Look To Improve

Aerobic Endurance: The ability of the heart and lungs,

to work for a long period of time.

Sports: Long distance running, Football, Road Cycling.

Muscular Endurance: The ability of a muscle, to work continuously without tiring. Sports: Hockey, Rugby, Endurance Sports

Flexibility: The range of movement at a joint.

Sports: Gymnastics, Dance, Diving.

Muscular Strength: The maximum amount of force a

muscle can produce in a

short period of time.
Sports: Rugby, Powerlifting, Boxing.

Speed: The ability to cover distances quickly. 3 types

of speed; Accelerative Speed, Pure Speed & Speed Endurance.

Sports; Athletics, Football, Rugby.

Body Composition: The ratio of Fat to fat-free mass In the body.

Different sports will need a different body fat percentage



Skill Related Fitness Components That You Should Look To Improve

Agility: Ability to change direction quickly and efficiently.

Sports: Tennis, Rugby, Football.

Balance: Ability to maintain centre of mass over a base of support.

Two types: Static and Dynamic Balance.

Sports; Gymnastics, games sports.

Co-Ordination: Smooth flow of movement to be able to perform

a motor skill fluently

Sports; Tennis, Rugby, Gymnastics.

Power: Combination of Speed and Strength.

Sports; Long Jump, Rugby, American Football.

Reaction Time: The ability to react guickly to a stimulus.

Sports; Sprinting, Tennis, Table tennis.



Principles of fitness training programmes

When designing training programmes, there are two key questions:

- 1. What am I trying to improve?
- How am I going to improve it?

You need detailed knowledge of different components of fitness and the different training methods used to improve them.

Before you can design a training programme, you will need to set individual goals. Without these, you will not know what to direct your training towards. The programme must be flexible but capable of meeting these goals and personal needs. Each individual has different ambitions and aspirations and your programme should reflect these.

The athletes aims and objectives should be broken down into short-term (up to one month), Medium term (One to three months) and long term goals (three months to one year). Goals should be

Principles of Training

For any training to be successful, it must stick to the following principles;

Specificity: Tailoring training to your goals and sport.

<u>Progressive Overload</u>: Gradually increasing exercise intensity to cause adaptation.

Variation: Changing the type of training, to increase

motivation.

Adaptation: Changes in the body caused by exercising at a high intensity.

Reversibility: When you stop training, you lose any fitness adaptations you will have gained.

<u>Rest & Recovery:</u> The time required to allow your body to repair any damage sustained during training/competition. The body will repair itself and become stronger than before.



Frequency



ntancity



Time



Type

Frequency: How often you train Intensity: How hard you train Time: How long you train for

Type: what type of training do you do

Exercise Intensity

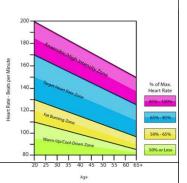
Measure how hard you are training by using your heart rate (BPM). Maximum heart rate = 220 – age Target heart rate zone for Aerobic training 60-85% of your maximum heart rate.

Therefore, you should be training had enough, that your heart rate is between 60-85% of your maximum heart rate.

This will cause your body to adapt.

Borg's RPE scale can also predict intensity and heart rate.

RPE X 10 = HR



All the targets that you set must be SMARTER targets:

- > Specific they say exactly what you mean (e.g. to improve flexibility in the hamstring muscle group)
- Measurable you can prove you have reached the (e.g. increase flexibility by 5cm using the sit and reach test)
- Achievable they are actions you can achieve (e.g. practice and improve flexibility through training)
- Realistic you will be able to achieve them but they will still challenge you (e.g. the increase in flexibility must be manageable a 20cm increase in two weeks is not achievable)
- Timed they have deadlines (e.g. to reach target within six weeks)
- Exciting ensure you look forward to and never get bored with your training programme.
- Recordable keep accurate records of everything you do in a training diary. This will be an excellent resource and source of inspiration to keep you fit and healthy.

A - Design A Personal Fitness Training Programme

Training Methods for physical fitness-related components

To develop different components of fitness to meet the needs of different sports you need to use a variety of training methods. These can be indoor or outdoor environments or using a range of equipment.

Aerobic Training Methods

Three most common methods used to improve aerobic endurance are:

- Continuous Training
- Fartlek Training
- Interval Training
- Circuit Training

There is insufficient evidence to suggest which training method is best, but all will lead to improvements.

Aerobic training is often used by people who want to lose or manage their weight by reducing their body fat content. Body fat is reduced because training increases levels of hormones epinephrine and norepinephrine which help break down fat to be used as an energy source. Aerobic endurance training can also help to improve blood volume, improve mitochondrial size and density, develop neuromuscular patterns and improve muscle tone.

Types of Aerobic Training

Continuous Training – Also known as a steady-state or long, slow distance training – athlete trains at a steady pace over a long distance. Intensity should be moderate (equal to or less than 70% of VO2 max) over a long distance and time.

This method is suited to long-distance runners and swimmers. Due to lower level of intensity, an athlete can train for longer. It can also be use for:

- Beginners who are starting structured exercise
- Athletes recovering from injury
- Specific groupings of individuals such as children or elderly people.

Disadvantages – Risk of injury when running long distances on harder surfaces. It can be boring and it is not always sport specific with the sport specific benefits being small.

Continuous Training can be performed in a gym using a range of cardiovascular equipment (treadmills, cross-trainers or exercise bike) or outdoors at a suitable park or track area.

Circuit Training -

A number of different stations will be set up around the room. Each station contains a different activity. Individuals are set a time limit to do these exercises. Between stations there should be a rest period.

A circuit can be designed to improve aerobic endurance, muscular endurance or strength or a combination of all three. To avoid fatigue, the stations should allow consecutive exercises to use different muscle groups.

To increase progression and overload, the individual may wish to:

- Decrease rest periods
- Increase the number of stations
- Increase the number of circuits
- Increase the time spent at each station
- Increase the number of circuit sessions per week.

Circuit training can be performed in a gym although space can be an issue. Circuit training can use cardiovascular equipment, free weights, resistance machines or simply body weight exercises at stations. Circuit training can also be performed outdoors at a suitable park or track area as long as you have mobile equipment.

Fartlek Training -

Based on running outdoors and intensity is varied depending upon athletes requirements. The intensity is changed by varied terrain such as sand. hills, soft grassland or woodland.

Some of the benefits of fartlek training are improving aerobic endurance, muscular endurance and improving balance and **proprioception** in the ankle, knee and hip all of which have a variety of benefits ranging from improved sport performance during a game to helping with injury rehabilitation.

Can be more useful than continuous training because it can be individual and sport specific. This methods uses both aerobic and anaerobic endurance and can involve changes in direction, so it is useful for team players as it can mimic the sport. In fartlek training there is no rest period but the athlete has more control and can decrease intensity at any time to rest. The benefits are:

- Less technical than other methods making it easier to use.
- Athletes can control their own pacing
- Boredom is reduced.

Can be performed in a gym using a range of cardiovascular equipment (treadmills, cross-trainers or exercise bike) so long as speed, gradient and resistance can be changed or outdoors at a suitable park where intensity can be changed by varying terrain.

Interval Training – improves both aerobic and anaerobic endurance by varying the intensity and length of work periods. Athletes perform a work period, followed by a rest period, before completing another work period. This can be repeated many times, depending upon fitness level.

When designing an interval training programme you should consider:

- The number of intervals (rest and work periods)
- Intensity of the work and rest intervals
- The duration of the work and rest intervals.

Sets and reps are common terms that provide structure and organization when referring to the number of exercises in the training programme.

Repetitions (REPS) – how many times you perform an exercise.

Set – how may times you repeat that exercise for the set number of reps.

Can be performed in a gym using a range of cardiovascular equipment (treadmills, cross-trainers or exercise bike) so long as speed, gradient and resistance can be changed or outdoors at a suitable park or track area where running or cycling can be undertaken safely.

Maximum heart rate (MHR) and training zones

MHR is used to calculate how hard you should work your heart to develop either aerobic or anaerobic fitness. (MHR) can be calculated as follows: 220 - age = MHR.

Warm-up or cool-down zone = 50 per cent of MHR (mainly for sedentary / unfit individuals new to training).

Activity recovery zone = 60 per cent of MHR (useful for aiding recovery, removing waste products; the next step for those new to

Fat burning zone = 60-70 per cent of MHR (required for fat burning management and for athletes training for long distances).

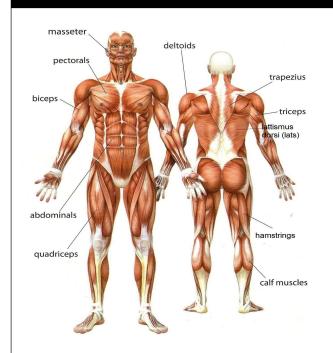
Aerobic fitness zone = 70-80 per cent of MHR (where you develop aerobic endurance; it is suitable for active / trained individuals).

Target heart rate = 60-75 per cent of MHR (this has the greatest benefit for cardiovascular health).

Peak performance zone = 80-90 per cent of MHR (highest zone of cardiovascular training, which is geared towards competitive sport and will help develop speed).

Anaerobic threshold = 90-100 per cent of MHR (this is the point where you can no longer meet your aerobic requirements, so the body uses your anaerobic systems. Training at this level is only suitable for advanced athletes).

B- Know About The Musculoskeletal System And Cardiorespiratory System And The Effects On The Body During Fitness Training



Short-term effects of fitness training on the musculoskeletal system:

A warm up must be used within your training plan and it must include three phases:

<u>Pulse Raiser</u>: To raise HR and speed up oxygen delivery to the muscles. Examples, jogging up and down a pitch.

<u>Stretching</u>: Stretching the muscles and sport tissues you are about to use and increasing their elasticity and range of motion. For example lunges, hamstring stretch.

Sports Specific: These are more intense practices relating to the main session such as dribbling if you are about to play basketball, or complete a session on co – ordination.

Planning for progressive overload to encourage micro tears in muscle fibres

Each session you must ensure that you are progressing over time. This means that you are placing your muscles under stress to cause microtears to happen within the muscles. These tares will then repair over time and become stronger. If you don't work at a high enough intensity in the first place during your training sessions you will not progress.





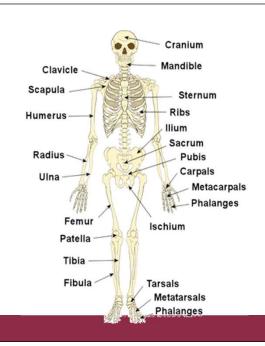
Synovial Joints:

Knee: Hinge Joint – Flexion and extension are available at the knee, by the use of the quadriceps (Knee flexion) and Hamstrings (Knee extension).

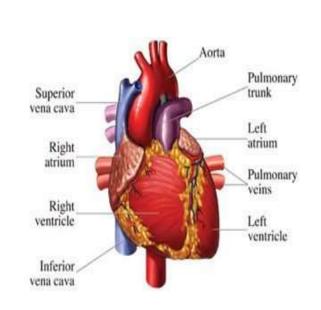
Elbow Hinge joint – Flexion and extension are available at the elbow by the use of the triceps (Elbow extension) and Biceps (Elbow Flexion)

<u>Hip</u> Ball and Socket joint – Flexion, extension, rotation circumduction, abduction and adduction are all available at the hip using the gluteus, and hip flexor muscles.

Shoulder Ball and Socket joint – Flexion, extension, rotation circumduction, abduction and adduction are all available at the hip using the deltoid muscles.



B- Know About The Musculoskeletal System And Cardiorespiratory System And The Effects On The Body During Fitness Training



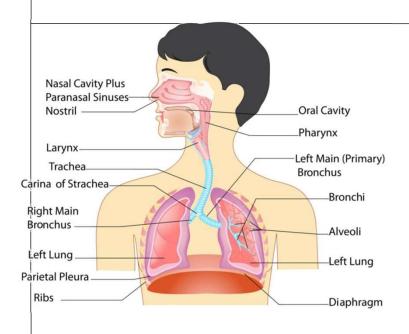
Short-term effects of fitness training on the cardiorespiratory system:

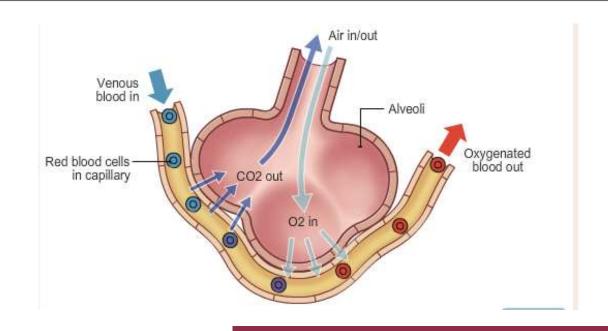
1.increased heart rate and breathing rate during fitness training activities

to supply oxygen to working muscles
As you start exercise there is an increase in demand for energy.
This energy can be supplied through aerobic (with oxygen) or anaerobic (without oxygen) respiration. As there is an increase in demand for energy this must be supplied through blood which is why we see an increase in heart rate ad more blood is being delivered to active muscles.
Following exercise the cardio respiratory system will slowly return to its resting values.

2. Increased build-up of lactic acid as a result of increased intensity in the main component.

As a by product of exercise lactate or 'lactic acid' is produced which leads to fatigue. This is due to the increased acidity in the cells as a result of the reactions taking place to release the required energy. During recovery when oxygen is available lactate can be broken down and removed from the body and some can be converted back into energy for physical work.





C Implement A Self-designed Personal Fitness Training Programme To Achieve Own Goals And Objectives

Safety

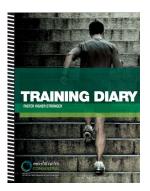
- You must ensure that the plans in which you are designing <u>can be carried out safely</u>. You must choose an appropriate training method for your sport (the sessions in which you have planned) to the best of your ability. If you miss <u>ANY</u> sessions they must be done during your own time.
- The use of equipment. If you are using any equipment you must ensure that it is used correctly and you have had the required training to use that piece of equipment. For example when using Fitness Suite equipment that you use the appropriate weight for your sessions, and that you have an awareness of wider safety of other people.
- Wearing the correct clothing If you do not dress appropriately for your sessions they are unsafe and you will not be able to complete your session.
- You must take responsibility to <u>record each session</u>, and the reps, weight, time, and sets that you complete following every session.



Training Diary

A Training diary will be kept which will include the following:

- Date, time and location for training undertaken.
- Aims and objectives for each session
 What are you working on in the session and why?
- Session duration How long did your session last?
- Type of training undertaken—selected method/ activity.
- Programme details (FITT).
- Log of personal performance and achievements
 What weight did you lift? What was your time/ HR during?
- Resources required,
 - e.g. equipment, cones, ladders, chest press machine.
- The principles of progressive overload and details of how progressive overload has been achieved over the course of the programme.
- Details of programme intensity using % HR max and RPE.



Measures For Success:

How will you measure your success of your training program? Things to consider:

- <u>Types of motivation (intrinsic and extrinsic)</u> How motivated were you during every session? Why was this?
- Benefits of motivation and self-confidence to successfully complete a fitness training programme – Why would motivation have an impact on your session?
- Motivation for training, including details in the diary of personal feelings before, during and after each training session – Looking at your training diary was your training designed perfectly for you? Did you enjoy it the whole time?
- Details of how the programme has been adapted to ensure continued commitment to training, for example using a variation of activities/training methods – How did you keep yourself interested in the training?
- Achievement against personal aims, goals and objectives, for example how performance has been taken to a higher level – Have you achieved your goals? If so why, if not why?

<u>D Review A Personal Fitness Training Programme.</u> Review Programme

You will complete a review of your training programme once it has been completed. It must include:

- Short term physiological effects, improvements as a result of the programme to meet the activity/sport goal Has it improved your component of fitness?
- After each training session How did you feel after each session/
- **Evidence of modifying** the programme to achieve planned personal goals Along the way you may change your programme because of lack of equipment, boredom or a change of goal. This **must** be included.
- Strengths:

Areas of the programme where and how personal aims and objectives have been achieved with reference to measures of success – What worked really well? What did you enjoy doing the most?

- Improvement:
- When did you not achieve your goal and why?
- Recommendations for improving future training and performance,
 For example personal training needs, use of different training methods/activities or strategies, use of psychological training techniques to improve performance.



Film Studies

NARRATIVE



Narrative includes both story and plot.

The story includes the events within the film that are not shown but are relevant.

The plot of a film refers to how the conflicts within the narrative are established and then resolved.

The main features you should be able to recognise.

- ✓ The difference between plot and story.
- ✓ Cause and Effect of the structure of the narrative.
- ✓ Narrative conventions.
- ✓ The role of the characters.
- ✓ Themes and issues raised.
- ✓ The impact the narrative has on the audience.

<u>Structure</u>	<u>Viewpoint</u>	<u>Theory</u>
Linear	Voice Over	Binary Oppositions
Circular	Restricted	Character Types
Episodic	Omniscient/ Unrestricted	Enigma Codes
Cause and Effect		
Flashback/ Flash Forward		



Film Studies

STRUCTURE

A narrative that starts at the end then goes back in time to return to this point later on.

Generally a film that starts at the end. These narrative structures may use a series of flashbacks.

Remember the Theorists?

Strauss Todorov Barthes Propp There are three ways in which a narrative can be structured.

Circular

Linear

Episodic

A narrative that is told in a chronological order. It is the most simple and commonly used narrative structure. These can often lead to cause and effect narratives as the consequences of one event can lead to an effect.

A narrative that has clearly separated sections, often broken up by title, date or by the cut back to a narrator. This is like when books have chapters. This can sometimes disrupt the chronological flow.



Year 10/11 BTEC Unit 1: The Music Industry

VENUES TYPES –

LARGE/MULTI-PURPOSE: Arena, Stadium, Large outdoor festivals, Large Theatres SMALL: Pub, Club, Small Theatre, School Hall

HEALTH & SAFETY AT VENUES:

- Heating, lighting, ventilation
- Safe electrical equipment
- Hygiene (toilets, clean drinking water)
 - First Aid Qualified Staff
 - Emergency Exits
 - No tripping hazards
 - Adequate
 - Disables Access
 - Security Guards (SIA license)
 - No Smoking

ROYALTY COLLECTION AGENCIES

PRS

Performing Rights Society represents their members' performing rights, whenever a piece of music is performed or played in any public space or place outside of the home. They then collect royalties for this in the form of licenses.

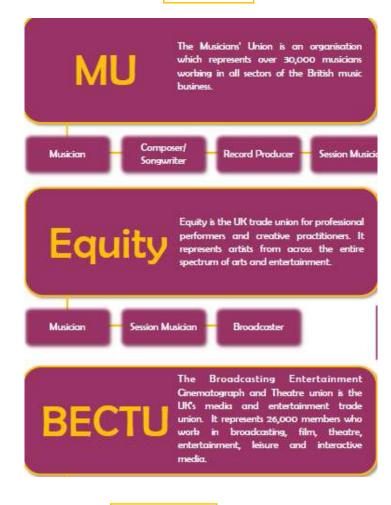
Phonographic Performance Limited licenses the right to play recorded music and music videos in public. They then collect royalties for this.



MCPS

The Mechanical Copyright Protection Society represents their members' mechanical rights, whenever a piece of music is reproduced as a physical product. They then collect royalties for this.

UNIONS



TRADE BODIES

MPG

The Music Producers Guild represents the interests of all involved in the production of recorded music in the UK

APRS

Association of Professional Recording Services represents those who work in the audio industry in the UK

PLASA

Professional Lighting and Sound Association represents those who supply technologies and services to events in entertainment in the UK

HIRE & TRANSPORT COMPANIES

Da Vinci Academy

RECORD COMPANIES



Lighting and Sound Equipment

Transport

- Company will have technical expertise with the equipment and can also give advice about best set up or needed specifications.
- The equipment will be higher quality and looked after properly.
- Engineer to take care of sound/lights so that
 the artist can focus on the music
- They will transport equipment when on tour so equipment is always at the venue when needed.
- Transport company may provide Roadies to carry and install equipment.
- Hire a bigger live in coaches for tours around the country or abroad.

Advantages of a major record label ares

- They have a great deal of money at their disposal.
- They have many connections with other labels and artists
- They have great links when it comes to promotion of an artist
- Because of their large size, they can get the best deals on manufacturing, advertising and links to media outlets.

Disadvantages of a major record label ares

- Difficult to stand out in such a big pool of artists
- Deals that are balanced in the favour or the record label making money as opposed to the artist.

Advantages of an independent record label ares

How does this compare to major record labels

- There are usually less artists so there is more time that can be spent with the artist
- The contracts are more fair to the artist, giving them a more even split of the money made
- Due to more time spent with the artist, a closer personal relationship can exist
- The artist can have more creative freedom with the songs chosen and the sound of the music.

Disadvantages of an independent record label ares

- Less funds available to make records
- Less funds to publicise and promote a record
- Organisation of record label can be difficult due to less employees and more informal nature
- Can have less contacts with the media for advertising and promotion.

Promotion Companies

Which label would you choose?

Promotion companies support the marketing and promotion of an artist and encourages publicity of an artists product for public awareness. This can include live shows, record signings, public appearances etc. Many of the big record labels will have a promotions company within their label rather than outsourcing to other companies.

PUBLISHING

Advantages of a major publishing house ares

- Major publishing houses are better equipped to distribute music, through funds they have available and already establish connections.
- The music published is associated with a certain quality and can be packaged and printed to reflect this.
- There are lot more opportunities for marketing and promotion as the publishing house will do this for you and have greater funds to do this more extensively.
- More opportunity to make significant amounts of money

Disadvantages of a major publishing house ares

- Usually need to go through an agent who will take a percentage of the money you earn.
- It is harder to have music published when the company is large
- They may insist on further editing to your music and certain changes made.

Which way of publishing would you pick and why?

Self Publishing (Online)

Advantages of self publishing ares

- Don't need to go through an agent as you can send your work directly to them
- You are more in control with the editing process
- It can be a stepping stone to a larger company
- May cater to a specific genre that is different from the style required of the major publishing houses.

Disadvantages of self publishing ares

- Less marketing and promotion through online publishing. This will need to be carried out by the composer
- You are likely to make less money from online publishing, especially in the short term.
- Not the same possibilities of distribution of your work.



Musician

A musician is someone who performs music through the playing of an instrument or singing. Musicians play many different styles of genre's, from Jazz to Pop, from Classical to Folk.

Musicians main responsibilities are

Why is it difficult to be a professional musician?

- Train and practise regularly to keep skills to a high standard
- Turn up to rehearsals on time and ready to
- Look after their instrument or their voice
- Learn new music for a show.



Live Sound Technician

A Live Sound Technician controls the sound at live events such as theatre performances and music concerts. They operate microphones, amplifiers and control desks to balance the sound levels, as well as providing background music and sound effects.

Live Sound Technicians main responsibilities are:

Why are sound checks important?

- Choose suitable microphones and equipment and make sure these are looked after
- Position and rig-up microphones
- Do sound-checks
- Operate the sound desk during shows/recording

echnician at a

Concert

Venue Manager

The venue manager must ensure the smooth running of their venue and make sure that the venue is (profitable business. This involves working closely with artists, ensuring the quality of the music performed and negotiating fees for the use of the yearing

Venue Managers main responsibilities are

What financial aspects does the Venue Manager need to consider!

Ensure that all services are opened and fully functional during scheduled times



- Give consistent and excellent level of service to clients
- Book artists for the venue.
- Assist with preparations of shows and supervise the whole process

Studio Managers main responsibilities are:

A Studio Manager makes sure that the studio is organised, in terms of bookings, equipment and administration.

They are involved in the business side of the operations and making sure that they keep existing clients satisfied

and attract new business to the recording studio.

- Ensure that the studio is run effectively and that it is financially
- Schedule times and liaise with clients
- Employ session musicians and engineers
- Promotion and marketing of studio

Check Health and Safety is in place to safeguard clients and employees

What health and cafets

onnoems are there at a studio

Promote a Concert

Promoter

Studio Manager

A Promoter is tupically hired as an independent contractor by music venues.

How would a promoter go about arranging a show?

earning an agreed-to fee or royalties. They work with agents, or in some cases, directly with the bands, and with clubs and concert venues to arrange for a show to take place. Promoters then are in charge of making sure the word gets out about that show.

Promoters main responsibilities are:

- Work with venues to arrange for a show
- In charge of 'putting on' the show
- Work with artists' management
- Promote the show through advertisement and publicity

Marketer

A Music marketer is someone who is in charge of raising awareness of an artist and creating a brand that can be easily recognisable to the public. In order for the artist to be popular, a marketer must help create a fan base through various types of media and publicity campaigns.



Social Media used to

Market on Artist

Marketers main responsibilities are:

- Design and implement marketing (i.e selling) plans: album sales, streams
- Gather prices for advertisements and promotions
- Devise promotional events, giveaways, sponsorships
- Have a radio/ online campaign for an artist
- Create the artist's image/brand

Why is a brand/image important?

Why should artists do

intervieus?

Record Producer

A Record Producer (or Music Producer) has a very broad role in overseeing and managing the recording (i.e. "production") of a band or performer's music. They have a lot of responsibility over the final recording made and are often likened to the director of a film in terms of their importance and overall creative input.

Record Producers main responsibilities are:

What coaching would theu give the artist? And why?

- Oversee and manage the recording of an cutist's music
- Gather ideas for the project and select songs
- Hire session musicians for the project
- Coach the artist in the studio
- Control the recording session
- Supervise the entire process through mixing to mastering



Thrillan

Music Journalist/Blogger



Cover of Rolling

Music journalism is reviewing and reporting about popular music topics, including pop music, rock music, and related styles. Music journalism is an aspect of entertainment journalism, covering popular music and including profiles of singers and bands, live concert, and album reviews.

Music Journalists main responsibilities are:

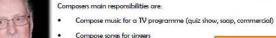
- Write reviews about an artist's concert and
- Attend shows, concerts, events and interview

Listen to CDs, online music, new talent to stay up to date with the latest music scene

Composer/Song Writer

A Composer is someone who writes music. This can be in the form of music written for an orchestra or brass band, music written for film or television, electronic music written on computers

or through song writing



Compose music for a special event (coronation, Olympics)

Work with the performer so that the song/composition is at their ability level of singing/performance (correct range)

What ways can a composer

song writer eam money?

Sound Engineer

Star Warsh

A Sound Engineer is required to assemble, operate and maintain the technical equipment used to record, amplify, enhance, mix or reproduce sound.

Sound Engineers main responsibilities are:

- Planning recording sessions with producers and artists
- Setting up microphones and equipment in the studio

Live Sound Technician Making sure the volume and recording levels are set correctly

- Operating recording equipment and adding effects
- Recording each instrument or item onto a separate track
- Mixing tracks to produce a final 'master' track

Masterina Engineer

edina a Darm Teac

A mastering engineer is a person skilled in the practice of taking audio (typically musical content) that has been previously mixed and preparing it for use in distribution, whether by physical media such as a CD, vinvl record, or as some method of streaming audio.

Mastering Engineers responsibilities are:

Complete the audio mastering process for an album

Prepare and transfer audio from one

format to a desired master format

· Refine the sound quality and make subtle changes to create an appealing sound

Session Musician

A Mastering Engineer

Making Subtle Changes

to the Audio

A session musician is a musician that is called in to play on recordings or in bands at short notice. They must learn and play parts almost immediately and should therefore be musicians of a high ability and have very good performance skills.

Venue Managers main responsibilities are:

Who would anvone want to be a session musician?

- Turn up on time to recording sessions or performances
- Rehearse music and keep instrumental level high
- Follow instructions given by producer/conductor
- Bring instrument and keep it in good condition for regular playing
- Contribute partly, at times, to the writing of an arrangement



Why is a Masterina Enginee

important?

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Listen to CDs, online music, new talent to stay up to date with the latest music scene



Why should artists do

intervieus?

How has software benefitted

CD/Vinvl Manufacturer

A Manufacturer is someone who takes the final master copy of a record and presses it onto CD or Vinyl to be distributed to retail stores for consumers to purchase.

Manufacturers main responsibilities are:

- Master CD's/Vinyl's of high quality
- Transport to distribution outlets (stores or online)
- Duplicate CD's/Vinyl's

What dangers does a Manufacturer



Retailer

A Retailer is someone who works in a business that sells music to consumers. This could be in the form of physical copies sold through high street shops or through online stores where music can be downloaded or streamed.

Examples of Retailers:

- Online: ITunes, Amazon, Spotify.
- Shops: HMV, Fopp, specialist record shops.

Why are high street retailers under threat?

DI

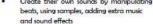
Dls play music for audiences at live venues. Dl's use various formats including vinyl, CD or MP3, and a range of equipment such as turntables, mixers, microphones and amplifiers. DI's develop the skill to seamlessly transition from one recording of a song to another by using turntable skills that involve the simultaneous use of two record turntables and a DI mixer

DJ's responsibilities are

Play and mix records in dubs or bars, to create atmosphere or beep people

Vhat other iob roles could a DI become involved in?

- Choose music to suit the audience's taste and the venue's music policy
- Create their own sounds by manipulating beats, using samples, adding extra music







Distributer

A music distributor links a record label or independent musical group to consumers. Their job is to sell recordings and to increase the group's visibility and popularity by convincing stores to stock and promote its recordings. Much of that comes through the distributor's sales reps, who build relationships with the chains and independent stores.

Distributers main responsibilities are:

- Convince stores to sell their clients album.
- Work with stores to promote their clients album
- Build good relationships with stores for future sells.



Software Programmer/App Developer



A programmer, computer programmer, developer, coder, or software engineer is a person who writes computer software. Software is extremely beneficial to the music industry and it has made it easier than ever to set up home studios and produce music in a more accessible way

Programmers main responsibilities are:

the inclustry? · Create apps, musical programmes: sequencing (Logic), notation software (Sibelius), music games

- Up date the programme regularly
- Create computer programmes that assist musicians with their training (aural tests, music theory)

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- Work with stores to promote their clients album
- Build good relationships with stores for future sells.

Work with an artist who raps or sings over the music.

What shills do you need to have to build relationships with people:



hat expertise would you need to have and know?

Instrument Technician

Instrument Technicians are those that have specialist knowledge of specific instruments and can therefore support with the use of them. They also have knowledge of how they should be used or the best configuration to get the best sound.

Instrument Technicians main responsibilities are:

- Look after the instrument
- Fix the instrument when broken (e.g. broken strings)
- Give advice regarding best use of equipment



Why can't artists manage

themselves?

Roadie

The road crew (or roadies) are the technicians or support personnel who travel with a band on tour and handle every part of the concert productions except actually performing the music

with the musicians

Roadies main responsibilities are:

- Carry equipment
- Set up equipment before event
- Look after the equipment
- Pack away the equipment at the end of the event

Artists and Repertoire (A&R)

Artists and repertoire (A&R) is the division of a record label or music publishing company that is responsible for talent scouting and overseeing the artistic development of recording artists and songwriters.

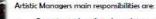
A&R main responsibilities are:

What would they look for in new

- Scouting for new talent and sign to a
- Oversee all the aspect of the process from delivery to finished recordings
- Development of artist as they grow and mature
- Manage the recording process
- Help find songs appropriate for the artist

Artistic Manager/Talent Manager

A artistic manager, also known as a talent manager, band manager or music manager, is an individual who guides the professional career of artists in the music industry.



- Organise and confirm show dates and tours
- Ligise with record companies
- Assist with studio planning
- Support artist on a personal level, with advice on lifestule choices
- To maintain the high standard needed of the artist
- Exploit marketing opportunities.



(Talent Manager

Justin Bieber



Unit 2: UK Travel and Tourism Destinations

What you need to know – tourist destinations	Explanation/Answers	
Capital Cities of the UK	The capital of the UK is London The capital of England is London, the capital of Northern Ireland is Belfast, of Scotland is Glasgow and of Wales is Cardiff	
The location of a variety of seaside resorts in the UK	For example, Skegness, Great Yarmouth, Margate, Brighton, Newquay, Weston-Super-Mare, Barry Island, Bangor (Wales), Bangor (N. Ireland), Southport, Blackpool, Portishead, South Shields, Whitby	
The location of major countryside areas in the UK	For example National Parks such as the Peak District, Snowdonia, Cairngorms, Exmoor, Brecon Beacons, Snowdonia, Lake District, and Areas of Outstanding Natural Beauty such as the Cotswolds, Causeway Coast, Isles of Scilly	
The location of the UK's major cultural destinations (and why they are culturally significant)	For example Stratford-upon-Avon (Shakespeare), Warwick (Castle), London (Arts and Performance), Edinburgh (Festival of Arts and Entertainment), Nottinghamshire (Robin Hood)	

What you need to know – UK entry points	Explanation/Answers
Major airports in the UK, their location and three- letter code	London Heathrow (LHR), London Gatwick (LGW), London Stansted (STN), London Luton (LTN), Bristol (BRS), Birmingham (BHX), East Midlands (EMA), Manchester (MAN), Leeds Bradford (LBA), Newcastle (NCL), Edinburgh (EDI), Glasgow (GLA), Belfast International (BFS)
Major UK passenger sea ports and their routes to Ireland or Continental Europe	Fishguard to Rosslare, Holyhead to Dublin, Newcastle to Amsterdam, Hull to Rotterdam, Harwich to Hook of Holland, Dover to Oostend, Dover to Calais, Newhaven to Dieppe, Portsmouth to Caen, Plymouth to Santander

What you need to know – UK travel routes	Explanation/Answers
Major motorways in the UK, including the cities they serve	M1 – London, Milton Keynes, Derby/Nottingham, Sheffield, Leeds M4 – London, Reading, Bristol, Cardiff M25 – London orbital M3 – London, Basingstoke, Southampton M20 – London, Maidstone, Dover
Major rail lines in the UK, including the cities they serve	Midland Mainline – London, Leicester, Derby, Sheffield West Coast Main Line – London, Birmingham, Crewe, Carlisle, Glasgow East Coast Main Line – London, Peterborough, York, Newcastle, Edinburgh, Inverness Great Western – London, Reading, Bristol, Newport, Cardiff, Swansea Great Eastern – London, Diss, Norwich





Unit 2: UK Travel and Tourism Destinations

Why do people visit the UK? What facilities do they use?	Explanation/Answers	
Visitor attractions	National trust and English Heritage Properties, theme parks, museums, historical sites, heritage sites and wildlife parks	
Natural features	Mountains, beaches, lakes, rivers and coasts	
Accommodation	Hotels, guest houses, bed and breakfast, self catering, camping, caravanning, holiday parks, boats	
Facilities	Sport and Leisure facilities, shopping, restaurants	
Arts and entertainment	Theatres, exhibitions, art galleries, exhibitions, local festivals/events	
Sightseeing	Guided tours, ghost walks, boat trips, road trains	
Transport links	Road, rail, air, sea links	

What are visitors to the UK like?	Explanation/Answers
Visitor types	Groups, families, age of visitor, culture, level of understanding of English, individual needs
Where they come from	Inbound (arriving the UK from overseas), Domestic (UK residents)

How can destinations increase their appeal?

You need to understand how and why a destination or facility can appeal to a greater range of tourists. What might they do?

- Improve facilities
- Appeal to a specific customer type
- Offer better transport links
- Adjust costs/admission
- Offer add-ons
- Appeal to a wider range of visitors
- Appeal to a different age group
- Improve interactivity
- Become part of a 'bundle' of attractions one price for multiple sites

You will need to suggest what techniques different tourist facilities or destinations can use, and be able to justify these fully.



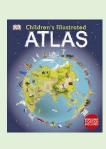


Unit 2: UK Travel and Tourism Destinations

Other than by using the internet, how else can visitors find information about facilities, attractions and holidays in the UK?







Atlases





Guidebooks

Tourist Leaflets

Holiday Brochures

Tourist Information Centres

How do you plan a holiday for somebody?	Explanation/Answers	
Visitor requirements	A summary of what the visitors would like	
Preferred dates/times	It is important to understand exactly when the person wishes to travel. What date? What time on that date? Sometimes, if a visitor is flexible, they can save money	
Travel requirements Are they travelling independently (e.g. by road, rail, air etc.) or as part of an organised tour (coa		
Accommodation requirements	What standard of accommodation (e.g. star rating), type of accommodation (e.g. stately home, hotel, apartment, holiday park, campsite etc.). On what board basis?	
What is their motivation for travel?	Are they travelling to relax? To undertake activities? For a special occasion?	
What do they want to see?	Are they looking to visit natural features? Cultural features?	
What is their budget?	How much are they aiming/willing to spend?	





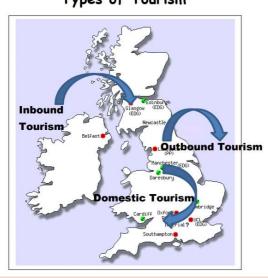
Knowledge Organiser

Unit 1

Key Facts

What are the different types of tourism?

Types of Tourism



Why do people travel? LEISURE TRAVEL

Leisure travel: Travelling to relax and enjoy yourself, outside of work hours.

- Day trips, visiting an attraction and returning home in one day.
- . Short breaks, less than 4 nights away from home.
- · Holidays, a period of rest and pleasure away from work, usually 1 week but could be longer, usually during school holidays.
- · Visiting Friends and Relatives (VFR), travel to get together with friends and family
- . Staycations, a holiday spent at home or in your hometown doing activities or going on trips that there isn't normally time for because of work.
- Special Events, a one-off or repeated event that people travel to specifically attend; such as concerts, festivals, football matches,

Why do people travel? BUSINESS TRAVEL



Why do people travel? SPECIALIST TRAVEL

- Adventure tourism
- Cultural/heritage
- Health tourism
- Education
- **Volunteer Tourism**
- Dark tourism
- Eco-tourism
- Conservation

What is SUSTAINABLE TOURISM?

- Meeting the needs of the present population whilst protecting natural, historic and cultural resources for the future.
- **Environmental factors:**
 - Make best use of natural resources
 - Protect the environment
 - · Protect wildlife
- Social/cultural factors:
 - Be good for the country and local people
 - Improve local quality of life
 - Protect traditions/traditional way of life
- Economic factors:
 - Make money for local people
 - Make jobs for local people
 - Improve life for the poor

What are the benefits of sustainable tourism?

- It helps to protect the environment It reduces the amount of energy used, e.g. electricity, petrol
- It reduces the amount of waste created
- t creates links with the local community
- It makes businesses more competitive
- It improves the image of businesses
- It saves business money

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(there are more road accidents than other

forms of travel), this is tiring for the driver.

Knowledge Organiser

· Can be very busy and noisy. . Trains can be cancelled and delayed

times to get to where you want to go, this can

be difficult with a lot of luggage or children.

entire flight. Timetables may be irregular

Unit 1	Key Facts		
How important is tourism to the UK economy? EMPLOYMENT	How impoerant is tourism to the UK economy? GDP	What is the TOURISM MULTIPLIER EFFECT?	
 Direct employment Jobs that are created by the travel and tourism industry, for example airline cabin crew, train driver, travel agent Indirect employment Jobs that are created to SUPPLY and SUPPORT the travel and tourism industry, for example the baker who supplied pastries to the hotel, the mechanic who fixes coaches used by the tour operator etc. 	 GDP stands for Gross Domestic Product It is the total value of goods and services bought and sold over a set period – usually a year. Tourism is worth around £250bn in a normal year It is very important to our GDP 	 This is where tourism has an impact not just on the place the tourist is visiting, but upon other people/places nearby. Eg: A new hotel opens up They pay a local laundrette to clean their sheets The new launderette employs a new member of staff for this job That member of staff spends more money in local stores Local store owners benefit through increased income 	
What is a TOUR OPERATOR?	What is a TRAVEL AGENT?	What are the advantages and disadvantages of using online travel services?	
 A company which takes the separate elements of a holiday, and packages them together to be sold to a customer. A tour operator may typically sell you a package which includes: A flight to your destination Transfers between the holiday airport and the holiday accommodation Holiday accommodation and services Tour operators can be DOMESTIC (UK holiday), OUTBOUND (holidays abroad for UK tourists), and INBOUND (holidays in the UK for foreign tourists) 	 The travel agent is the place from where the tour operator's package can be purchased, or, you can buy the different elements and other elements of the holiday from them. For example, you could buy the package holiday mentioned previously from the Travel Agent, who may then also sell you: Travel insurance Foreign currency UK airport parking Car hire whilst abroad Attraction tickets The may be MULTIPLES (lots of branches, e.g. Hayes Travel), INDEPENDENTS (one-off independent retailers) or ONLINE (web presence only, e.g. Expedia) 	Advantages of Online Travel Services Easy for the customer to book their holiday when they want 24/7 availability Customers can compare products and costs of services of lots of holiday providers. Easy to make up the holiday providers. You find out instantly what is available, making it easy to get last minute deals. Offers of Blogs for further information Disadvantages of Online Travel Services. No expert help, no one to talk to for advice. Limited choice of timerary. Lack of security online can lead to credit card theft or identity theft. Customer has to sort out their own problems if something goes wrong. It is easy to miss things when you book yourself e.g. transport to and from the airport, insurance etc. Difficult for group bookings	
What is road travel?	How popular is rail travel in the UK?	Is air travel all the same?	
Most domestic travel takes place by road, usually by car or by coach Advantage of Road Travel Cars can stop whenever they want They can take more luggage There are not many toll roads (ones you have to pay to travel on) in the UK You can listen to your own music-as loud as you want!	Rail travel tends to be very popular in the UK for both local and long distance journeys. Our stations tend to be centrally located and the network is comprehensive Advantages of Rail Travel Disadvantages Of Rail Travel	 SCHEDULED FLIGHTS operate to a regular fixed timetable and travel between major airports and provide some services – e.g. Air France LOW COST AIRLINES offer very limited services and charge for most 'extras' such as refreshments, suitcases. They sometimes fly from less well-known airports CHARTER FLIGHTS one company pays the airline to operate the 	

Most now have charging facilities and WiFi

and some have a restaurant.

These days navigation is easy if you have a



Unit 1

Knowledge Organiser

Key Facts

What types of sea travel exist?

- Most people who travel by sea from the UK g on short ferry crossings, e.g. Dover to Calais or Holyhead at Dublin.
- Some crossings are longer (e.g. Portsmouth to Santander in Spain takes 24 hours)
- Most ferries accept cars and lorries/coaches
- Some people travel onboard as 'foot passengers;
- Some ferries are fast e.g. Seacat Catamarans
- A small number of hovercraft services still operate –
 passenger only between Southampton and the Isle of
 Wight.

What types of ACCOMMODATIONS to tourists tend to stay at?

- Serviced accommodation
 - Hotels
 - Motels
 - Guest houses/B&B's
- Non-serviced Accommodation
 - Self Catering (e.g. apartments)
 - Youth Hostels
 - Caravans and campsites
 - Holiday parks

What are the main purposes of VISITOR ATTRACTIONS in the UK?

- Entertainment many purpose built visitor attractions are designed to give people a fun experience
- Education some purpose built visitor attractions are there to educate people about the past, present or future.
- Leisure and recreation the natural environment creates a place for outdoor activities e.g. climbing. Some leisure places are built for relaxation or healthy activities e.g. spa
- Conservation these are attractions designed to protect the natural environment. They can also provide education and enjoyment
- Visitor Attractions provide a range of products and/or services; These include information and interpretation for people who cannot speak English, rides, exhibits, events, tours and guides, educational talks, hospitality and catering and souvenirs.

What types of visitor attractions exist in the UK?

and historic features

Type of attractions	Definition	Example 1	Example 2	Example 3
Natural attraction	A natural feature of the environment that is interesting to tourists. Some natural areas have been built to help protect the environment.	National Park	Dorset coast	Amazon rainforest
Purpose built attraction	A man-made attraction that has been built to attract tourists	London Eye	Alton Towers Alton Towers	Chester zoo
Heritage attractions	Attractions associated with history and/or culture. These can include: 1. Historic buildings or historic coastlines that were NOT built for tourists in the past however, they do attract tourists due to their history. 2. Places that contain pieces of history. E.g. museum. Heritage tourism may also help protect traditions	Windsor Castle	Manchester	Stone Henge

Why else would people visit the UK?

- ARTS AND ENTERTAINMENT
 - Mega events (e.g. the Olympic Games)
 - Hallmark Events (regularly scheduled special events, e.g. Chelsea Flower Show)
 - Major Events (those which attract national TV coverage, e.g. the Grand Prix)
 - Local Events (which people in a specific area may know of, e.g. Derby Carnival
- FESTIVALS are events which occur (usually) once per year and celebrate something special
- THEATRE: Drama, comedy, plays, musicals, ballet etc.



Unit 1

Knowledge Organiser

Key Facts

Who leads and regulates the UK tourism industry?

Trade organisation (Letters)	Full name of the trade organisation	What they do.
CAA	Civil Aviation Authority	 Regulate aviation (flying) Make sure that the air is managed safely and customers are protected.
ATOL	Air Travel Organisers' Licence	Financial protection scheme. Run by CAA. Ensures that travellers do not lose their money or become stranded abroad.
ORR	Office of Rail Regulation	 Regulates health and safety on Britain's railways, Makes sure customers are treated fairly and gives taxpayers value for money.
ABTA	Association of BritishTravel Agents	Regulates British travel agents and tour operators. Insures that customers receive a high standard of service Has a fund to help repatriate stranded holidaymakers.
AITO	Association of Independent Tour Operators	Represent independent tour operators and travel agents. They want high levels of customer satisfaction and good quality service.
N/A	UK Inbound	 Their aim is to encourage inbound tourism by helping members manage a successful business.

What are ANCILLIARY ORGANISATIONS?

- These are organisations or companies which can sell you a product to enhance/make better/support a travel experience. For example:
 - Car hire firms like Herz or Europear
 - Travel Insurance such as Norwich Union
 - **Price Comparison Sites**
 - Airport Service Providers
 - Event Booking

Private: -Most organisations in the travel and tourism industry are privately owned by an individual or partners or by a group of people called shareholders. The main function is to make a profit, which can then be paid out to shareholders or kept by the owner. Profits can be made by selling more holidays, flights or other tourism products and services. Examples include; Tul, EasyJet, Haven and Hilton.

What types of organisations operate in the UK tourism sector?

Public: - Public sector organisations are run by the government. Their primary aim is to not make a profit; instead they exist to provide a service to the community by informing, educating and advising the customer

Theme parks, travel agents and tour operators are all

• Voluntary:- These organisations are often charities. They do not try to make a profit any money made funds their cause. They get their money from merchandise (things sold in shops), donations and grants. Some exist to educate the public, to promote a cause, educate and inform

What is HORIZONTAL INTEGRATION?

- HI is where a company in the travel and tourism sector buysout, merges, or forms a company at a different stage in the holiday chain.
- For example, a travel agent may buy a tour operator, who has an airline, and between them, then invest in a chain of hotels and bring it all under one name/brand

What is VERTICAL INTEGRATION?

- VI is where a company buys another similar one in order to make it bigger/more dominant.
- This can reduce competition and force prices up.
- In the early 2000s, Ryanair (largest airline at Stansted) purchased an airline called BUZZ (the 2nd largest airline at Stansted)

What is COMMON OWNERSHIP and BUSINESS PARTNERSHIP?

- Common ownership is where one company owns multiple different organisations.
- Business partnerships see companies owned by different owners work in partnership with each other

What are the advantages of common ownership and business partnerships?

What are the disadvantages of common ownership and business partnerships?

How can consumer technology benefit the industry?

Advantages of Common Ownership and Commercial Partnerships

- Increases sales and money coming in due to more efficient business operations.
- · Marketing and promotion (advertising) efforts are doubled, increasing customer and trade recognition (more people know who they are).
- Combined expertise helps companies to provide good customer care.
- · Gives them more power over suppliers (because they are buying more, suppliers don't want to lose them as customers so make their prices cheaper).
- Enables greater economies of scale (when making larger quantities of one thing it costs less to make each one), this happens because they are selling more of the same product
- · Shared resources (things all the business can share)
- · Wider customer base (more customers).

Disadvantages of Common ownership and commercial partnerships:

- Size of operation, it becomes too big to manage properly.
- Less competition means that the customer has less
- Loss of personalised customer care
- The company ends up monopolising the market (having most of the customers) so it has more control over the whole industry.
- Inflexibility, not easy for them to change products to meet changing customer wants
- Can lead to large scale redundancies (people losing their jobs) if the company decides to close branches and offices

Online bookings - available 24/7

privately owned.

- Virtual tours
- Online check-in for flights etc
- Self-service ticketing machines
- M-Tickets/E-Tickets
- Websites





Why EMPOWER children;

- i) Legal right
- ii) Show child is respected and valued
- iii) Help children to respect themselves and others
- iv) Involve children in decision making

How Adults Can Support a Child's Empowerment

Physical Care Routines







Privacy

Help Themselves During Meals







Support Child Initiated Play







Empowerment benefits development in the following ways

Physical

Confidence Motivation Develops decision making skills Cognitive

Motivation Perseverance Decision making skills Concentration Emotional

Self esteem Decision making Manage own behaviour Social

Develop self respect Respect & value others feelings

Involve Children in Planning & Feedback







Preparing the Environment











 A key person is someone who develops a strong bond with a child and their family and is responsible for them and their needs being met

Legal requirement – it is a statutory requirement for Early Years Foundation Stage that all children in early years settings are allocated key workers.



Why the key person approach used in early years settings

The main roles:

- Developing a strong bond with the child this is important so the child feels safe and encouraged. The key person should care for the child and the relationship should be enjoyable for both.
- Share information with the parent inform the parents about what the child has done (water play, painting, baking) eaten and accomplished (any milestones hit) that day as well as if they have had any accidents.
- Supports settling in and transitions the key person should help a child settle in to a new environment by being there for taster sessions and starting to get the know the child during these. They also would help with transitions such as the child becoming a sibling by playing with dolls and talking about what will happen to prepare the child.
- Observing the child this is to watch the child's development and check they are approaching the relevant milestones. If a child is slightly behind they may plan tasks to help the child's development in this area. For example if they are 3 and can't yet throw and aim a large ball they might plan an activity around this task to help the

Why approach is used:

- To allow parents to have a person they can contact and give information to such as the child's medical conditions, dietary needs such as if the child is a vegetarian, their likes (dinosaurs), their dislikes (clowns), routines and anything that may affect their mood or behaviour at nursery.
- A key person is needed to support the child's physical and care needs are met. This means the key person is responsible for ensuring the child takes their medicine or doesn't eat certain foods. They will know specific things about the child such as if they need a dummy to go to sleep or that they don't like to eat with purple cutlery.



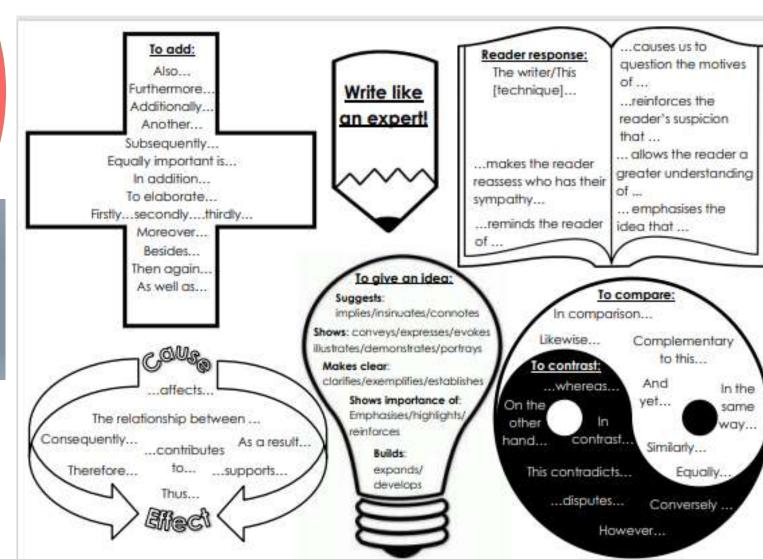


Writing needs the following to also be effective:

- Be precise
- Well structured
- Choice of vocabulary



- Punctuation
- Written in the correct style and format
 - Grammatically <u>correct</u>





Sentence Types Knowledge Organiser

Key terminology	Definition	
Main clause	A group of words which contains a verb and makes sense on its own.	
Subordinate/ dependent clause	A clause which does not make sense on its own (it is reliant on the main clause).	
Co-ordinating conjunction	Link words or phrases that join two equal clauses.	
Subordinating conjunction	Link words or phrases that join clauses where one is dependent on the other.	
Sentence Types	Definition	
Simple	A sentence containing one main clause.	
Complex	A sentence containing a main clause and at least one subordinate/dependent clause.	
Compound	A sentence containing two main clauses joined by a conjunction.	
Complex compound	A sentence containing two main clauses and one or more subordinate or dependent clauses.	
Minor	A word, phrase or a clause which is an incomplete sentence but functions as a sentence.	





Subject	Verb	Object
The cat	chased	the dog.
Subject	Verb	Compliment
Mumbai	Is	big
Subject/Verb	Adverbial	Object
It is	after all	a small world

Sentence Functions	Definition
Declarative	A statement.
Imperative	A command.
Interrogative	A questions.
Exclamations	An expressive or emotive exclamation.





Voice	Definition
Active Voice	Where the subject/ agent performs the action expressed by the verb.
Passive Voice	Where the subject is filled by a patient who receives the action expressed by the verb. The agent is omitted or placed later in the clause.



.E.A.D. Academy										
Noun Type	Descr	Description			Example	Determiners	Description	Example		
Proper	Refers to names of people or places.			James, England	Articles	Shows if something is	The (definite)			
Abstract Refers to states, feelings and ideas which do not have a physical existence.			Love, anger, justice		definite or indefinite	a/an (indefinite)				
Concrete	Refers to objects with a physical existence.			Table, chairs	Possessives	Shows ownership	My, her, your, our			
Callantina					Courses and formille	Quantifiers	Shows either specific	One, some, any a		
Collective A noun that identifies a group of individuals				Government, family, community		or non specific quantities of a noun	few			
Pronouns	Pronouns Description				Example					
Personal		Can replace a noun and identify in tern person.			I, you, she, he, they	Adverbs	Description	Example		
Demonstrative	Orientates the reader/ listener to an id either nearby or further away.				This, these, that, those	Manner	Answer the question 'how?'	Carefully, quickly		
Indefinite	Refers to a person or object that is non specific				Someone, anybody, everything	Place	Answer the question 'where?'	Here, outside		
Verbs	Verbs Description			Example		Time	Answer the question	Yesterday, today,		
Dynamic/ material	ynamic/ material Sh		r events	Hit,	jump, wash		'when?'			
Stative/ Relational	rative/ Relational Identifies states of being		of being	Be,	appear, seem, become	Frequency	Answer the question	Daily, always,		
Auxiliary A verb that forms tense or rother verbs		s tense or mood of	Be,	do, have	, ,	'how often?'	usually, seldom			
Modal auxiliary A verb that shows degree of certainty, probability or possibility		•	Sho	ould, must, might, could, will	Conjunctions	Description	Example			
Adjectives				Example			Links words, phrases or clauses together where equal	And, but, or yet		
Base		The basic form of an adjective		Big, interesting, happy						
Comparative	A form used to compare two instances by adding –er		two instances Bi	Bigger, more interesting, happier		0	Links clauses where one is dependent on the	Because, although, while, for		
Superlative	Identifies the best example			Biggest, most interesting, happiest			other	.,		