

Revision Checklist:



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



Mock 3 Series 2025

Mock 3 Week 1	9.00am Exam Start	1:30pm Exam Start
<i>M 03/02/2025</i>	English Language Paper 2 (1 hour 45 mins)	Biology Paper 2 (1 hour 15 mins)
<i>Tu 04/02/2025</i>	French Listening and Reading (F = 1 hour 20 mins H = 1 hour 45 mins)	Computer Science Paper 1 (1 hour 30 mins)
<i>W 05/02/2025</i>	Maths Paper 1 Calc (1 hour 30 mins)	Chemistry Paper 2 (1 hour 15mins)
<i>Th 06/02/2025</i>	History Paper 1 and Geography Paper 1 (2 hours) (1 hour 30mins)	Maths Paper 2 Non Calc (1 hour 30 mins)
<i>F 07/02/2025</i>	Computer Science Paper 2 and Health and Social (1 hour 30 mins) (1 hour)	French Writing (F = 1 hour H = 1 hour 15 mins)
Mock 3 Week 2	9.00am Exam Start	1:30pm Exam Start
<i>M 10/02/2025</i>	English Literature Paper 2 (2 hour 15 mins)	Sport (1 hour)
<i>Tu 11/02/2025</i>	History Paper 2 and Geography Paper 2+3 (1 hour 30 mins) (1 hour 30mins)	Statistics (1 hour 30 mins)
<i>W 12/02/2025</i>	Maths Paper 3 calc (1 hour 30 mins)	Physics Paper 2 (1 hour 15 mins)
<i>Th 13/02/2025</i>	Travel and Tourism + Food (1 hour 45mins)	Mop Up
<i>F 14/02/2025</i>	Child Development + Mop Up (1 hour)	Mop Up

Construction: Y11B/Cn1 will be on Thursday 27 February (PD +P5)
Y11C/Cn1 will be on Friday 28 February (PD + P5)

Key Dates

Date	Milestone
17 th Jan	Mock 3 revision checklists distributed.
3 rd Feb	Mock 3 exam series begins, and marking/moderation begins.
14 th Feb	Mock 3 exam series ends.
3 rd March	Marking and moderation ends.
13 th March	Year 11 Parents Evening

Key Staff

Role	Name
Examination Officer	Mrs O'Neill
SLT Examination Lead	Mr Gregory
SLT SEND - (Access arrangements)	Mrs McKenzie and Mrs Perks
Year 11 AL	Mrs Cooksey
Year 11 AAL	Mrs Lockton

Grades



Mock 3 Grade:

- Grades will be awarded for all subjects.
- These grades will be based on the Mock 3 exam papers in addition to any coursework marks obtained to this point.









Predicted Grade:

- Our staff are encouraged to review the grade that they feel the student is likely to achieve by the end of year 11.
- Students will be provided with this grade on their Mock Grade report.
- This grade could be higher or lower than the Mock grade, based on the teacher's knowledge of what content is still to be covered.

Please note when making applications to various post-16 destinations, either of the two grade types may be requested.

Examination Logistics

	<p style="text-align: center;"><u>Rooming:</u> Sports Hall – Main Cohort Gym – Access Arrangement W14 – Access Arrangement Conference Room – Support Room</p>	
	<p style="text-align: center;"><u>AM Exam Timings:</u> 8:30 Line Up + Collect Phones and store securely. 9:00 Exam Start</p> <p style="text-align: center;">Students will have break as normal. If an examination runs into break, the cohort will be given an extension.</p>	<p style="text-align: center;"><u>PM Exam Timings:</u> 12:40 -Year 11 Lunch Start 1:15 -Line Up 1:30 – Exam Start</p> <p style="text-align: center;">Registers will be taken in the exam hall using the desk name cards by attendance. Students will leave site after PM exam, however, may stay on site to attend P6 revision sessions.</p>
	<p style="text-align: center;"><u>Malpractice Awareness:</u> Under exam conditions the use of unauthorised materials, copying or attempting to copy, escaping from supervision or collusion (i.e. cheating) is not permitted.</p> <p style="text-align: center;">Unauthorised Materials Include – Mobile phones, air pods/ear pieces, food, drink labels, correction fluid, gel pens, multi/clicker pens, watches.</p>	
	<p style="text-align: center;"><u>Mobile Phones:</u> Mobiles are not allowed in the exam room. We are collecting mobile phones from students at the start of each day, storing them securely and returning them as students leave site after the PM exams.</p> <p style="text-align: center;">Students will not be allowed to enter the exam until contact home has been made should you fail to hand over your phone.</p>	
	<p style="text-align: center;"><u>Toilets:</u> Students without a toilet pass are not allowed to leave the exam within 45 minutes of the exam starting and 30 minutes of the exam finishing.</p> <p style="text-align: center;">Students without a toilet pass will not be permitted to leave the exam for any paper shorter than 1 hour 15 minutes.</p>	
	<p style="text-align: center;"><u>Access Arrangements:</u> Students entitled to Access Arrangements may have slightly different rules as part of their plan.</p> <p style="text-align: center;">Students will be made aware if this applies to you and access arrangements are organised by Mrs Perks.</p>	

Revision Timetable

It is important to have a balance of study, leisure and rest. Use these timetables to plan your week accordingly. These can also be used to plot where you do not have free time available, such as school or when attending clubs or appointments.

Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
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English Language Paper 2

Topic	What you need to know/do	Revise	Revisit
Language paper 2			
Writing techniques in non-fiction	<ul style="list-style-type: none"> Understand techniques like anecdote, statistics, rhetorical questions, direct address, repetition, facts, opinions Evaluate how writers build arguments or persuade (rhetoric) 		
Comparing perspectives and attitudes	<ul style="list-style-type: none"> Identifying similarities and differences in viewpoints. Using comparative language effectively (e.g., "whereas," "similarly") Summarising key points concisely 		
Question 1	Identify four true statements		
Question 2	Write a summary – making clear inferences <ul style="list-style-type: none"> Extract relevant information from both texts Write concise, balanced summaries Use comparative phrases (e.g., "both texts suggest") 		
Question 3	Write about language and its effects <ul style="list-style-type: none"> Identify language devices (e.g., metaphor, simile, hyperbole). Analyse word choices and their connotations. Explain the effect on the reader with evidence 		
Question 4	Compare writer's viewpoints and perspectives <ul style="list-style-type: none"> Highlight key language and structural features in both texts Explain how these features convey different perspectives Write a balanced and focused comparison 		
Question 5	Transactional writing – write to voice opinion through letters, articles, speeches, leaflets, blogs <ul style="list-style-type: none"> Plan and structure a persuasive response Using rhetorical techniques (e.g., direct address, alliteration) Craft an engaging opening and conclusion 		

Revision sources

Online

Mr Bruff Language paper 2:




Physical

Class notes
Revision booklets

English Literature (Power and Conflict)

Poem	Themes	Revise	Revisit
Literature paper 2: Power and Conflict poetry			
Ozymandias	Power of rulers, transience of power, nature's dominance, pride, hubris, time.		
London	Social inequality, abuse of power, oppression, poverty, corruption, suffering.		
The Prelude	Power of nature, human vulnerability, fear, awe.		
My Last Duchess	Power and control, arrogance, jealousy, pride.		
The Charge of the Light Brigade	Bravery, sacrifice, futility of war, duty, patriotism, loss.		
Exposure	War and its futility, suffering, nature as an enemy, sacrifice.		
Storm on the Island	Power of nature, human helplessness, fear, conflict between humans and the environment, isolation.		
Bayonet Charge	Reality of war, fear, survival, patriotism and its questioning, individual conflict, chaos.		
Remains	Guilt, psychological conflict, trauma, violence, morality, effects of war.		
Poppies	Parental grief, loss, memory, war and its impact on families, sacrifice, emotional conflict.		
War Photographer	War and its horrors, detachment and guilt, responsibility, suffering, emotional conflict, memory.		
Tissue	Fragility of human power, the transience of life, identity.		
The Émigrée	Memory, exile, identity, conflict between idealism and reality, oppression, resilience, loss.		
Checking Out Me History	Power of knowledge, identity, colonialism, cultural conflict, historical bias, self-discovery.		
Kamikaze	Conflict between personal duty and national expectation, family, memory, cultural pressures, war, honour, shame.		


Revision sources

Online	Physical
Mr Bruff Literature paper 2 (Power and Conflict): 	Class notes Revision booklets

English Literature (Unseen poetry)

Topic	What you need to know/do	Revise	Revisit
Language paper 2: Unseen poetry			
Understanding the poem	<ul style="list-style-type: none"> • Can I read the poem carefully and understand its overall meaning? • Can I identify the speaker and their perspective? • Do I understand the tone of the poem (e.g., happy, sad, reflective, sarcastic)? • Can I summarise the poem in 2–3 sentences? 		
Analysing language and structure	<ul style="list-style-type: none"> • Can I pick out key words or phrases that stand out in the poem? • Can I explain how the poet uses imagery (e.g., metaphors, similes, personification)? • Do I understand the poem's structure (e.g., stanzas, line length, rhyme, or rhythm)? • Can I explain the effect of any repetition, enjambment, or caesura? 		
Themes and messages	<ul style="list-style-type: none"> • Can I identify the main themes or ideas in the poem (e.g., love, loss, nature, identity)? • Can I explain what the poet might be trying to say or make the reader feel? • Do I think about how the poem reflects on human emotions or experiences? 		
Personal response	<ul style="list-style-type: none"> • Can I explain how the poem makes me feel and why? • Do I consider how different readers might interpret the poem? • Can I give my own opinion while supporting it with evidence from the poem? 		

Revision sources

Online	Physical
Mr Bruff Literature paper 2 (Unseen poetry): 	Class notes Revision booklets

English Literature (An Inspector Calls)

Topic	Themes	Revise	Revisit
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Plot and context

1912-1945	Society, politics, labour, Titanic, General Strike, two World Wars.		
Social class	Hierarchy, patriarchy, capitalist, socialist.		
Young vs the old	Generation, beliefs, society, social change.		
Act one	Celebration interrupted; Inspector arrives.		
Act two	Secrets revealed; family tensions rise.		
Act three	Consequences discussed; Inspector departs.		

Characters

The Inspector	Moral authority, mysterious, advocate for responsibility.		
Arthur Birling	Arrogant, capitalist, ignorant, self-serving.		
Sybil Birling	Cold, proud, judgmental, dismissive of responsibility.		
Sheila Birling	Naïve to mature, remorseful, socially aware.		
Eric Birling	Awkward, guilty, reckless, morally improving.		
Gerald Croft	Charming, privileged, evasive, reluctant to change.		
Eva Smith	Invisible, victimized, symbolizes the working class.		

Themes

Gender	Eva Smith vulnerable to exploitation by men. Mrs. B expects Sheila to conform to traditional roles, marrying for status. Gerald and Eric's treatment of Eva reflects how men in privileged positions exploit women.		
Social responsibility	Inspector challenges each character to take responsibility for their actions, showing the consequences of their behaviour.		

Revision sources









Online	Physical
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Mr Bruff Literature paper 2 (An Inspector Calls):





Class notes
Revision booklets

Geography – Paper 1

Topic	Key information	Revise	Revisit
Natural Hazards			
Tectonic Hazards	<ul style="list-style-type: none"> Distribution of tectonic hazards Plate margins – constructive, destructive (including collision) and conservative Contrasting earthquake case studies (Amatrice/Italy [HIC] and Nepal [LIC]). Why were the impacts and management so different? Why do people live in areas of tectonic hazards? Focus on volcanic hazards How can we reduce the effects of tectonic hazards? 3ps and monitoring 	 	
Weather Hazards	<ul style="list-style-type: none"> Global atmospheric circulation model Formation and distributions of tropical storms Tropical storm case study (Typhoon Haiyan) - Impacts and responses. How does global warming affect tropical storms? How can we reduce the effects of tropical storms? 3Ps and monitoring UK weather case study (Cumbria Floods). Impacts and responses. What are the impacts of extreme weather in the UK and how can it be managed? 		
Climate Change	<ul style="list-style-type: none"> Evidence for and against climate change Human and natural causes of climate changes Social, economic and environmental impacts of climate change Mitigation and adaptation strategies 		
Living World			
Ecosystems	<ul style="list-style-type: none"> Small scale ecosystems, food webs, nutrient cycle and relationships within them Location and characteristics of biomes 		
Tropical Rainforests (TRF)	<ul style="list-style-type: none"> Physical characteristics of the TRF. Interdependence in the TRF Biodiversity and plant and animal adaptations Deforestation case study (Amazon Rainforest). Causes, impacts and sustainable management of the TRF. Importance of the TRF Sustainable management of the TRF 		
Hot Deserts	<ul style="list-style-type: none"> Physical characteristics of hot deserts Interdependence in hot deserts Biodiversity and plant and animal adaptations Hot desert case study (Western Desert, USA). Opportunities (energy, mining etc...) and challenges in the Western Desert (Extreme heat, lack of water, inaccessibility). Desertification – causes, impacts and management in the Sahel 		
Physical Landscapes of the UK			
Coasts	<ul style="list-style-type: none"> Key Processes of erosion, transportation, deposition, weathering and mass movement Formation of erosional (Stack, wave cut platform, headlands and bays) and depositional landforms (spit, bar, beach, sand dune) Coastal landscape case study (Dorset Coast) - The coastline features, causes of erosion, coastal defences. Hard and soft engineering methods. How they work and Positives/Negatives 		
Rivers	<ul style="list-style-type: none"> River features from source to mouth (River Tees) Key Processes of erosion, transportation and deposition Formation of waterfall, meander, flood plain, interlocking spurs, oxbow lakes and levees Flood hydrographs – How to read them and what physical and human factors affect the chances of a flood. Hard and Soft engineering methods. How they work and Positives/Negatives Management of flood risks, e.g. Jubilee River Flood Relief Channel Hydrographs 		

Geography – Paper 2

Topic	Key Terms	Revise	Revisit
Urban Issues			
Urbanisation	<ul style="list-style-type: none"> Causes of urbanisation around the world and reasons for different rates in LICs and HICs Megacities – what are they and where are they found? 		
Case study of an LIC city	<ul style="list-style-type: none"> Lagos – Location and importance Opportunities (Access to health, shanty town regeneration, public transport [BRT]). Challenges (Managing shanty towns (Makoko), sanitation, water, waste disposal, air and water pollution) How is Lagos improving the quality of lives for the urban poor? Makoko Redevelopment. 		
Case study of a UK city	<ul style="list-style-type: none"> London – Location and importance Impact of internal and international migration on London Opportunities (cultural mix, recreation, employment, transport system, urban greening) Challenges (inequalities, urban deprivation, brownfield and greenfield sites, waste disposal, urban sprawl, crime, congestion) Explanation of regeneration (London Olympic Park, Docklands, Shoreditch) 		
Urban sustainability	<ul style="list-style-type: none"> How can people live more sustainably? Case study on sustainable urban living (East Village/Olympic Park) How can urban transport strategies reduce traffic congestion? Crossrail and Boris Bikes 		
Changing Economic World			
Comparison of LIC (Nigeria) and LICs (UK)	<ul style="list-style-type: none"> How economic development leads to improved quality of life Trade and aid as methods to reduce the development gap The economic development of Nigeria, including its changing economy, TNCs, aid, debt, the involvement of China, economic migration out of Nigeria The economic development of the UK including the industrial structure, deindustrialisation, post-industrial economy (M4 corridor), high-tech industry (Cambridge), motor industry, rural changes, transport and infrastructure (ports and airports) Inequalities within a country: the UK's north-south divide The UK's global links 		





Revision Sources

Online	Physical
<ul style="list-style-type: none"> GCSE Pod Seneca BBC Bitesize Mr B's Geography Channel on Youtube 	<ul style="list-style-type: none"> Knowledge organisers Exercise books Revision work from class Case Study information Fieldwork summary crib sheet

Geography – Paper 3

Topic	Key Terms	Revise	Revisit
Fieldwork			
Enquiry Question	<ul style="list-style-type: none"> You will be required to write the title of your fieldwork: <ul style="list-style-type: none"> Physical: To what extent is Elvaston Castle Country Park a healthy and balanced ecosystem? Human: To what extent has the regeneration of the CBD of Derby been overwhelmingly positive? I know the factors that need to be considered when selecting suitable questions. I know the potential risks of both human and physical fieldwork and how reduced 		
Data Collection	<ul style="list-style-type: none"> I can explain the difference between primary and secondary data I can describe some data collection methods and explain their advantages and disadvantages – e.g. taking photographs, measuring channel depth, conducting traffic surveys. I understand the difference between qualitative and quantitative data I can identify and select different sampling methods such as random, stratified and systematic. 		
Data Presentation	<ul style="list-style-type: none"> I can select and use accurately appropriate presentation methods such as annotated photographs, bar charts and maps I can describe different data presentation methods and explain their positives and negatives 		
Data Analysis	<ul style="list-style-type: none"> I can describe, analyse and explain the results of fieldwork data. I can explain links between different sets of data I can identify anomalies in fieldwork data I can confidently calculate mean, mode, median, range and interquartile range 		
Conclusion	<ul style="list-style-type: none"> I can draw evidenced conclusions based on data analysis 		
Evaluation	<ul style="list-style-type: none"> I can identify the problems of data collection methods I can identify the limitations of data collected I can suggest other data that might be useful I can suggest ways of improving enquiries in the future 		





Geographical Skills – GCSE Pod (For all three papers)

Fieldwork	Graph	Cartographic (Map)	Statistics
			



Prefer Seneca?







History – Conflict & Tension, The Interwar Years 1918-1939 (Paper 1)

Topic	Key Knowledge	Revise	Revisit
Key topic 1: Peacemaking 1918-1919	<ul style="list-style-type: none"> The aims of the Big Three (Clemenceau, Wilson & Lloyd George) & why they were willing to compromise The terms of the Treaty of Versailles The reaction to the treaty: the views of the people & leaders of Britain, France & the USA The reactions to the treaty: the views of the German people and the impact on the new Weimar government Negative consequences of the treaty & arguments as to why it can be justified The terms of the treaties imposed on Germany's allies The extent that each of the Big Three achieved their aims 		
Key topic 2: The League of Nations in the 1920s	<ul style="list-style-type: none"> The creation of the League: aims, membership & powers Structure of the League: Assembly, Council, Permanent Court of International Justice & role of Special Commissions The work of the Special Commissions: successes and failures Events in the 1920s: Vilna (1920), Upper Silesia (1921-25), Aland Islands (1921), Corfu (1923), Bulgaria (1925) & Wall Street Crash (1929). International agreements that did not involve the League: Locarno Treaties (1925), Rapallo Treaty (1922), Washington Arms Conference (1921-22) & Kellogg-Briand Pact (1928) 		
Key topic 3: The League of Nations in the 1930s	<ul style="list-style-type: none"> The impact of the Great Depression on international cooperation The Manchurian Crisis: reasons for Japan's invasion, events of the invasion, the League's response The Abyssinian Invasion: reasons for Italy's invasion, events of the invasion, the League's response Results of the League's actions in the 1930s: effect on the League, impact on international relations & effect on Hitler Factors in the League's failure: the League's actions, the response of Britain & France, incomplete membership, the League's weak powers, the Depression etc. 		
Key topic 4: Hitler's Foreign Policy 1933-1938	<ul style="list-style-type: none"> Hitler's foreign policy aims: Lebensraum, Volksgemeinschaft, rearmament etc. Early foreign policy events 1933-1935: reasons for leaving the Disarmament Conference, the Dollfuss affair (attempted Anschluss), rearmament, the Saar plebiscite & Anglo-German Naval Agreement. The reoccupation of the Rhineland (1936): reasons for it, response from Britain, France & the League, why it was a gamble & results for Hitler. Anschluss (1938): events, results for Germany, response from other countries The Sudetenland Crisis (1938): reasons why Hitler wanted the Sudetenland, events of 1938, the effects of appeasement on Chamberlain's response. The Munich Conference (1938): reasons why the conference was called, the reaction of Britain, France & Italy to Hitler's demands, results of the conference, Chamberlain's claims of 'peace in our time', subsequent invasion of the rest of Czechoslovakia. Appeasement: positives and negatives of the policy. The Nazi-Soviet Pact (1939): reasons for Germany & the USSR signing the Pact, what was agreed & Britain & France's response to the Pact. The invasion of Poland (1939): Germany's actions, Britain & France's response. Factors that resulted in the outbreak of the Second World War: Hitler's actions, the failure of the League, the Depression, the Treaty of Versailles & appeasement. 		





History – Germany (Paper 1)

Topic	Key Knowledge	Revise	Revisit
<p>Key topic 1: The rule of the Kaiser and the First World War 1890-1918</p>	<ul style="list-style-type: none"> Germany during the reign of the Kaiser: the growth of socialism and trade unions, the impact of these on parliamentary government, rivalry with Britain. The Kaiser's foreign policy aims: Weltpolitik & the Naval Laws. Germany and the First World War: impact of the war on the home front, reasons for the Kaiser's abdication, the Kiel Mutiny and armistice, the introduction of democratic government. 		
<p>Key topic 2: The Weimar Republic, 1918-19</p>	<ul style="list-style-type: none"> The setting up of the Weimar Republic. The strengths and weaknesses of the new Constitution. Reasons for the early unpopularity of the Republic, including the 'stab in the back' theory and the key terms of the Treaty of Versailles. Challenges to the Republic from Left and Right: Spartacists, Freikorps, the Kapp Putsch. Reasons for economic recovery, including the work of Stresemann, the Rentenmark, the Dawes and Young Plans and American loans and investment. The challenges of 1923: hyperinflation; the reasons for, and effects of, the French occupation of the Ruhr. The impact on domestic policies of Stresemann's achievements abroad: the Locarno Pact, joining the League of Nations and the Kellogg-Briand Pact. Germany's Golden Age: cultural changes including developments in architecture, art and the cinema, music & reactions to these. 		

History – Elizabethan England (Paper 2)

Topic	Key Knowledge	Revise	Revisit
<p>Key topic 1: Elizabeth's court, Parliament & early issues of her reign</p>	<ul style="list-style-type: none"> Elizabeth's Character & early life How England was ruled under Elizabeth – court, Parliament, the Privy Council, JPs & Lord Lieutenant The difficulties facing a female ruler The reasons why the issue of marriage was so important The potential suitors Elizabeth's attempts to find a religious solution 		
<p>Key topic 2: Challenges to Elizabeth at home and abroad, 1569–88</p>	<ul style="list-style-type: none"> The reasons for, and significance of, the Northern Rebellion, 1569–70. The features and significance of the Ridolfi, Throckmorton and Babington plots. Walsingham & the network of spies. Mary, Queen of Scots and why she posed a problem for Elizabeth The reasons for, and significance of, Mary Queen of Scots' execution in 1587. The reasons for the Earl of Essex' rebellion Reasons why the rebellions against Elizabeth failed Reactions to Elizabeth's religious policies: Catholic responses (papal bull, laws introduced against Catholics in the 1580s). The arrival of missionaries & Jesuit priests e.g. Edmund Campion Reactions to Elizabeth's religious policies: Puritan responses (arguments with Elizabeth, prophesyings, later crackdowns by John Whitgift) 		
<p>Key topic 3: Elizabethan society 1558-88</p>	<ul style="list-style-type: none"> Wealth and fashion in Elizabethan England: the differences between gentry & nobility, how people demonstrated their wealth The role of the theatre. The reasons why the Elizabethan period can be seen as a 'Golden Age'. The reasons for the increase in poverty and vagabondage during these years. The changing attitudes towards the poor. The introduction of the Poor Law (1601) 		
<p>Key topic 4: Exploration & relations with Spain</p>	<ul style="list-style-type: none"> Factors prompting exploration, including the impact of new technology on ships and sailing and the drive to expand trade. The reasons for, and significance of, Drake's circumnavigation of the globe. The significance of Raleigh and the attempted colonisation of Virginia. Commercial rivalry. The New World, privateering and the significance of the activities of Drake. The impact of the voyages of discovery on England (wealth, power & territory) Political and religious rivalry with Spain. English direct involvement in the Netherlands, 1585–88. Spanish invasion plans. Reasons why Philip used the Spanish Armada. The reasons for, and consequences of, the English victory. 		

History – Health & The People (Paper 2)

Topic	Key Knowledge	Revise	Revisit
Health & The People 1000-Present Day			
Medieval Period 1000-1500	<ul style="list-style-type: none"> • Hippocrates, Galen & the Four Humours • Treatments: the Natural, the Supernatural and Astrology • Medieval Medics • The Christian Church • Islam and Muslim Doctors • Medieval Public Health • The Black Death 		
Renaissance Period 1500-1700	<ul style="list-style-type: none"> • Vesalius & the Human Anatomy • Paré, Ligatures and the Impact of War on Medicine • Harvey and the Circulatory System • Approaches to Treatment and Prevention of Illness • New Ideas, New Technologies, New Science • Responses to the Great Plague of 1665 • The Changing Nature of Hospitals and Medical Professions 		
Industrial Period 1700-1900	<ul style="list-style-type: none"> • Simpson and Anaesthetics • Pasteur and Germ Theory • Lister and Antiseptics • Robert Koch and Bacteriology • Magic Bullets and Immunology • Treatment in Industrial Britain • Industrialisation and its Impact on Health and Medicine 		
Modern Period 1900-2000	<ul style="list-style-type: none"> • Fleming, Florey, Chain and Penicillin • The NHS • Alternative Medicine • Modern Surgery • McIndoe and Plastic Surgery • Living Conditions and Welfare • Liberal Reforms • Modern Developments 		

Revision Sources

Online	Physical
BBC Bitesize www.bbc.co.uk/bitesize Oak Academy www.classroom.thenational.academy YouTube: Early Elizabethan England Revision https://www.youtube.com/watch?v=wEyo64_ixes Weimar and Nazi Germany https://www.youtube.com/playlist?list=PLxblnOcOkdUs6VsKaw4t4l7qHhgvlv7d	Booklets Revision booklets Class notes Knowledge Organisers

Maths – Foundation

Unit	Unit / Topic	Revise	Revisit
1	Integers and place value Types of number Use and order positive and negative numbers Use inequality symbols Four operations using positive and negative numbers Round numbers to nearest 10, 100, 1000 and use rounding for estimation		
	Decimals Use decimals and place value Compare and order decimal numbers Four operations using decimal numbers Round to nearest whole number, decimal place & significant figures Use one calculation to check another		
	Indices, powers and roots Find squares and cubes Use index notation including negative powers Use laws of indices to multiply and divide numbers in index form Order of operations including powers and brackets Use of calculator		
	Factors, multiples and primes Identify factors, multiples and prime numbers Find prime factorisation of a number (& write in index form) Find common factors & highest common factor Find LCM of two (or three) numbers		
2	Algebra: the basics Write an expression Collect like terms Simplify expressions Use index laws		
	Expanding and factorising single brackets Expand single brackets Simplify expressions using squares and cubes Factorise expressions		
	Expressions and substitution into formulae Substitute into expressions involving brackets & powers Substitute into a formula (& word formula)		
3	Tables Sort and classify data (inc tally charts) Extract data from lists and tables (inc time tables) Identify mode from a list / table		
	Charts and graphs Know which chart or diagram to use for different data sets Draw and interpret bar charts (inc dual & composite) Draw and interpret line graphs (vertical & time-series) Draw and interpret pictograms Draw and interpret stem and leaf diagrams		
	Pie charts Draw and use pie charts Find mode & total frequency from a pie chart Compare two pie charts		
	Scatter graphs Draw and use scatter graphs & lines of best fit Identify outliers & correlation		

Maths – Foundation

Unit	Unit / Topic	Revise	Revisit
4	Fractions Equivalent fractions including simplifying & comparing Express one amount as a fraction of another Convert between mixed numbers and improper fractions Four operations using fractions Find a fraction of an amount		
	Fractions, decimals and percentages Use fraction to decimal conversions Recognise terminating & recurring decimals		
	Percentages Convert between fractions, decimals & percentages Order & compare fractions, decimals & percentages Write one amount as a percentage of another Calculate percentage of an amount Calculate percentage increase/decrease Use decimals to find quantities (multiplier methods) Increase / decrease an amount by a percentage		
5	Equations Use function machines Solve equations (inc brackets and unknowns on both sides) Rearrange simple equations Set up & solve equations to solve problems		
	Inequalities On a number line Listing numbers that satisfy an inequality Solving inequalities and show the solution on a number line Error intervals due to rounding & truncation		
	Sequences Continue sequences inc from pictures Find the nth term Use nth term rule to generate or continue a sequence		
6	Properties of shapes, parallel lines and angle facts Measure and draw lines, angles, 2D & 3D shapes Identify and name 2D shapes and their properties Identify parallel and perpendicular lines Use angle facts - around a point, straight line, vertically opposite etc Use angle properties of parallel lines		
	Interior and exterior angles of polygons Use sum of interior angles for irregular & regular polygons Use sum of exterior angles for regular polygons		
7	Statistics and sampling Understand bias		
	The averages Use various charts & diagrams in relation to averages Calculate the mean, mode, median and range from a list Median, mean and range from a table (discrete data) Modal class, median and estimate of the mean from grouped data		
8	Perimeter and area Convert between metric measures Read scales Time Perimeter of 2D shapes Area of 2 D shapes Area of compound shapes Surface area of prisms & simple compound forms		

Maths – Foundation

Unit	Unit / Topic	Revise	Revisit
8	3D forms and volume Identify and name 3D forms and their properties Volume of a cuboid Volume of a prism Volume of a composite forms		
9	Real-life graphs Use coordinates in all 4 quadrants Midpoints of a line segment Conversion graphs Fixed cost and cost per unit graphs Distance / time and Velocity/ time graphs		
10	Straight-line graphs Draw, use and interpret (inc gradient) straight line graphs Identify parallel lines Find the equation of a line (including from a graph)		
11	Transformations I: translations, rotations & reflections Transform and describe translations Transform and describe rotations Transform and describe reflections		
12	Transformations II: enlargements and combinations Transform and describe enlargements Transform shapes using a combination of transformations Describe transformations when using multiple transformations		
13	Ratio Write ratios in their simplest form (including in context) Share a quantity in a given ratio (including 3 part ratios) Use a ratio to find one quantity when another is known Compare ratios Write ratio in the form 1:n or n:1 Write a ratio as a fraction and vice versa		
14	Proportion Use direct & inverse proportion (and recognise graphically) Best value Recipes Currency conversions		
15	Right-angled triangles: Pythagoras and trigonometry Pythagoras' Theorem Trigonometry - sin, cos and tan Know exact trig values		
16	Probability I Probability scale Listing outcomes Two way tables & Frequency Trees Use 1-p		
17	Probability II Relative frequency Sample space diagrams Venn diagrams Probability tree diagrams		
18	Multiplicative reasoning Use compound measures: Pressure, Density & Speed Percentage profit / loss Reverse percentages Simple interest Compound interest & growth Depreciation & decay Rates of pay		

Maths – Foundation

Unit	Unit / Topic	Revise	Revisit
15	Plans and elevations 3D shape names and properties a Sketch 3D forms Draw plans and elevations of shapes Draw a 3D form given its plan and elevations		
	Constructions, loci and bearings Standard constructions b Find regions satisfying a combination of loci Use maps and scale drawings Bearings		
16	Quadratic equations: expanding and factorising a Expand double brackets Factorise quadratic expressions Solve quadratic equations		
	Quadratic equations: graphs b Plot quadratic graphs Find solutions, intercepts & turning points of a quadratic graph		
17	Circles, cylinders, cones and spheres Name parts of a circle Recall & use formula for area and circumference of a circle Arcs and sectors Surface area & volume of a cylinder Spheres, pyramids, cones and composite solids.		
18	Fractions and reciprocals a 4 operations with mixed number fractions Reciprocal of an integer, decimal or fractions		
	Indices and standard form b Index laws to simplify & calculate the value of an expression Convert between ordinary numbers and standard form Work with the 4 operations in standard form Use a calculator with indices and standard form		
19	Similarity and congruence in 2D a Use congruence criteria for triangles (SSS, SAS, ASA and RHS); Identify similar shapes Identify scale factors and find missing lengths in similar shapes		
	Vectors b Understand and use column notation including drawing them Identify parallel column vectors Calculate using column vectors		
20	Rearranging equations, graphs of cubic and reciprocal functions and simultaneous equations Know the terms equation, identity, expression etc Change the subject of a formula Answer simple "show that" questions. Use inverse proportion involving graphs Recognise and sketch cubic functions Recognise and sketch reciprocal functions Solve simultaneous equations algebraically and graphically		

Revision Sources

Online

Dr Frost Maths, On-Maths, maths made easy

Physical

Ms Cruise's High frequency topic booklets,
Shadow exam papers, exam papers

Maths – Higher

Unit	Title	Revise	Revisit
1	Calculations, checking and rounding Four operations with decimals and whole numbers a Use one calculation to find the answer to another Product rule Rounding & estimation		
	Indices, roots, reciprocals and hierarchy of operations b Use index notation including fractional and negative powers Order of operations		
	Factors, multiples and primes Identify factors, multiples and prime numbers c Find prime factorisation of a number (& write in index form) Find common factors & highest common factor Find LCM of two (or three) numbers		
	Standard form and surds Index laws to simplify & calculate the value of an expression d Convert between ordinary numbers and standard form Work with the 4 operations in standard form Use a calculator with indices and standard form Simplify surd expressions		
2	Algebra: the basics Write an expression Collect like terms Simplify expressions a Use index laws Expand single & double brackets Factorise single brackets Factorise quadratic expressions Factorise quadratic expressions using difference of two squares		
	Setting up, rearranging and solving equations Set up expressions and equations b Substitute into expressions, equations and formulae Solve linear equations and inequalities Change the subject of a formula		
	Sequences Continue sequences inc from pictures Find the nth term Use nth term rule to generate or continue a sequence c Find the nth term of a quadratic sequence Distinguish between arithmetic and geometric sequences Recognise and use simple geometric progressions Find term to term rule of a geometric sequence, including negative, fraction and decimal terms		
3	Averages and range Use various charts & diagrams in relation to averages Two way tables a Calculate the mean, mode, median and range from a list Median, mean and range from a table (discrete data) Modal class, median and estimate of the mean from grouped data		
	Representing and interpreting data Know which chart or diagram to use for different data sets Draw and interpret bar charts (inc dual & composite) Draw and interpret line graphs (vertical & time-series) b Draw and use pie charts Find mode & total frequency from a pie chart Compare two pie charts Produce and interpret histograms Compare distributions		
	Scatter graphs c Draw and use scatter graphs & lines of best fit Identify outliers & correlation		

Maths – Higher

Unit	Title	Revise	Revisit
4	Fractions Equivalent fractions including simplifying & comparing Express one amount as a fraction of another a Convert between mixed numbers and improper fractions Four operations using fractions Find a fraction of an amount Convert between recurring decimals to fractions and vice versa		
	Percentages Use fraction to decimal conversions Recognise terminating & recurring decimals Convert between fractions, decimals & percentages Order & compare fractions, decimals & percentages b Write one amount as a percentage of another Calculate percentage of an amount Calculate percentage increase/decrease Use decimals to find quantities (multiplier methods) Increase / decrease an amount by a percentage Reverse percentages		
	Ratio and proportion Write ratios in their simplest form (including in context) Share a quantity in a given ratio (including 3 part ratios) Use a ratio to find one quantity when another is known Compare ratios c Write ratio in the form 1:n or n:1 Write a ratio as a fraction and vice versa Write a ratio as a linear function Use direct & inverse proportion (and recognise graphically) Recipes Currency conversions		
5	Polygons, angles and parallel lines Measure and draw lines, angles, 2D & 3D shapes Identify and name 2D shapes and their properties Identify parallel and perpendicular lines a Use angle facts - around a point, straight line, vertically opposite etc Use angle properties of parallel lines Use sum of interior angles for irregular & regular polygons Use sum of exterior angles for regular polygons Use the side/angle properties of compound shapes made up of triangles, lines and quadrilaterals		
	Pythagoras' Theorem and trigonometry Pythagoras' Theorem b Trigonometry - sin, cos and tan Know exact trig values		
6	Graphs: the basics and real-life graphs Use coordinates in all 4 quadrants Conversion graphs a Fixed cost and cost per unit graphs Distance / time and Velocity/ time graphs Midpoints of a line segment Calculate the length of a line segment		
	Linear graphs and coordinate geometry Draw, use and interpret (inc gradient) straight line graphs b Find the equation of a line through two points Find the equation of a line (including from a graph) Identify parallel and perpendicular lines Generate equations of parallel and perpendicular lines		
	Quadratic, cubic and other graphs Plot quadratic graphs c Find solutions, intercepts & turning points of a quadratic graph Recognise and sketch cubic functions Recognise and sketch reciprocal functions Draw circles, centre the origin, equation $x^2 + y^2 = r^2$.		

Maths – Higher

Unit	Title	Revise	Revisit
7	Perimeter, area and circles Convert between metric measures Read scales a Perimeter of 2D shapes Area of 2 D shapes and compound shapes Name parts of a circle Recall & use formula for area and circumference of a circle Arcs and sectors		
	3D forms and volume, cylinders, cones and spheres Identify and name 3D forms and their properties Volume of a cuboid b Volume of a prism Volume of a composite forms Surface area of prisms & simple compound forms Surface area & volume of a cylinder Spheres, pyramids, cones, frustums and composite solids.		
	Accuracy and bounds c Calculate the upper & lower bounds of numbers Calculate the upper & lower bounds of an expression Use error intervals (inc truncation)		
8	Transformations a Transform and describe translations, rotations & reflections Transform and describe enlargements inc fractional and negative SF Transform shapes using a combination of transformations Describe transformations when using multiple transformations Describe the changes & invariance achieved by combinations of transformations		
	Constructions, loci and bearings b Draw plans and elevations of shapes Draw a 3D form given its plan and elevations Use maps, scale drawings & bearings Standard constructions Find regions satisfying a combination of loci Find and describe regions satisfying a combination of loci, including in 3D Use constructions to solve loci problems including with bearings		
9	Solving quadratic and simultaneous equations Set up and solve quadratic equations Completing the square a Quadratic Formula Solve simultaneous equations algebraically and graphically (linear/linear) Solve simultaneous equations algebraically and graphically (linear/quadratic) Solve simultaneous equations algebraically and graphically (linear/circle)		
	Inequalities b On a number line Listing numbers that satisfy an inequality Solving inequalities and show the solution on a number line		
10	Probability Probability scale Listing outcomes Two way tables Frequency trees Use 1-p Relative frequency Sample space diagrams Venn diagrams Probability tree diagrams		
11	Multiplicative reasoning Best value Use compound measures: Pressure, Density & Speed Percentage profit / loss Reverse percentages Simple interest Compound interest & growth Depreciation & decay Rates of pay		

Maths – Higher

Unit	Title	Revise	Revisit			
12	Similarity and congruence in 2D and 3D Use congruence criteria for triangles (SSS, SAS, ASA and RHS); Use formal geometric proof involving similarity & congruence Identify similar shapes Identify scale factors and find missing lengths in similar shapes Use length, area and volume scale factors Area and surface area of frustums					
	13	Graphs of trigonometric functions Recognise, sketch and interpret graphs of the trigonometric functions Exact trig values Transforming graphical functions				
		Further trigonometry Formula for area of a triangle				
		b	Sine rule in 2D and 3D			
			Cosine rule in 2D and 3D			
			Pythagoras Theorem in 3D			
14	Collecting data a Types of data Bias and eliminating bias					
	Cumulative frequency, box plots and histograms Construct & interpret cumulative frequency tables/graphs Median, quartiles & interquartile range from cumulative diagrams					
	b	Construct & interpret box plots Median, quartiles & interquartile range from box plots Construct & histograms				
		Estimate the mean and median from a histogram				
15	Quadratics, expanding more than two brackets, sketching graphs, graphs of circles, cubes and quadratics Sketch quadratics Identify roots, turning points and intercepts of quadratic graphs Completing the square Expand the product of more than two linear expressions Sketch cubics Solve simultaneous equations graphically Solve and represent quadratic inequalities (including graphically)					
	16	Circle theorems a Parts of a circle Prove, recall and apply circle theorems				
		Circle geometry b Recognise and construct the graph of a circle Find the equation of a tangent to a circle				
		17	Changing the subject of formulae (more complex), algebraic fractions, solving equations arising from algebraic fractions, rationalising surds, proof Rationalise the denominator involving surds Simplify, multiply and divide algebraic fractions Change the subject of a complex formula Algebraic Proof Functions & function notation			
			18	Vectors and geometric proof Understand represent and use vector notation, including column notation Find the length of a vector Calculate the resultant of a vector Geometric problems in 2D where vectors are divided in a given ratio. Geometrical proofs to prove points are collinear & vectors/lines are parallel		
				19	Reciprocal and exponential graphs; Gradient and area under graphs a Recognise, sketch and interpret reciprocal graphs Calculate and interpret the area under a curve Calculate and interpret gradient of a tangent to a curve	
Direct and inverse proportion b Recognise and interpret graphs of direct & inverse proportion Set up and use formulae for direct & inverse proportion						

French

Topic	Revision guide Page	Key Terms	Revise	Revisit
Reading, Listening, Speaking and Translation Theme 1- Identity and culture				
Me, my family and friends	Book one p 5-16	About yourself, family, describing people, personalities, relationships and partnership and marriage.		
Technology in everyday life	P 22-27	Technology, Social Media and the problems with Social Media.		
Free-time activities	p 27-46	Music, cinema, books, TV, food, eating out and sports.		
Customs and festivals in French-speaking countries	52-56	Festivals around the Francophone world, religious festivals and customs.		
Reading, Listening, Speaking and Translation Theme 2- Local, national, international and global areas of interest				
Home, town, neighbourhood and region	Book two P6,7, 22-43	Where you live, your home, what you do at home, clothes shopping, asking for directions and the weather.		
Social issues	56-61	Healthy living, unhealthy living and illnesses. Charity/volunteer work.		
Global issues	43-50	Environmental problems, poverty/homelessness.		
Travel and tourism	8,9, 13-23	Where to go, accommodation, getting ready to go, transport options, holiday activities.		
Reading, Listening, Speaking and Translation Theme 3- Current and future study and employment				
My studies	Book 3 P 5 - 23	School subjects, teachers.		
Life at school/college	5-23	School routine, timetable, bullying, what you do at break/lunch, pressures/exams.		
Education post-16	41-44	Further education, plans for college/6 th form.		
Jobs, career choices and ambitions	24-40	Ideal job, part-time jobs, the world of work.		

French

Topic	Key Topics	Revise	Revisit
Foundation writing			
Theme 1- Identity and culture	<ul style="list-style-type: none"> Me, my family and friends Technology in everyday life Free-time activities 		
Theme 2- Local, national, international and global areas of interest	<ul style="list-style-type: none"> Home, town, neighbourhood and region Social issues 		
Theme 3- Current and future study and employment	<ul style="list-style-type: none"> My studies Life at school/college Jobs, career choices and ambitions 		
Higher writing			
Theme 1- Identity and culture	<ul style="list-style-type: none"> Me, my family and friends Technology in everyday life Free-time activities 		
Theme 2- Local, national, international and global areas of interest	<ul style="list-style-type: none"> Home, town, neighbourhood and region Social issues Global issues 		
Theme 3- Current and future study and employment	<ul style="list-style-type: none"> My studies Life at school/college Education post-16 Jobs, career choices and ambitions 		
Reading, writing, speaking and listening			
Language basics	From p. 24	Verbs, WOW phrases, exam techniques	

Revision Sources

Online	Physical
QR codes for past papers as Google quizzes Quizlet - AQA GCSE French Revision GCSE Pod	Paper-based revision guide

French

Revision Sources

Online

QR codes for past papers as Google quizzes
Quizlet - AQA GCSE French Revision
GCSE Pod

Physical

Paper-based revision guide

Listening Foundation



Listening Higher



Reading Foundation



Reading Higher



<https://forms.gle/gjNmcqxUzuBxt4CWA>

<https://forms.gle/fFQFzHtWR3bZdMr29>

<https://forms.gle/DZvC3dc3dEbeHiVn7>

<https://forms.gle/XTMvch5TGrV8dPnDA>

My Score: _____

My Score: _____

My Score: _____

My Score: _____

Listening Foundation



Listening Higher



Reading Foundation



Reading Higher



<https://forms.gle/HAp2VHjJaddwPWDy5>

<https://forms.gle/YAywNZdDdWie4mdw8>

<https://forms.gle/yTtBT1ekJrkTZiDr7>

<https://forms.gle/bXioL2bLnDNtgcg878>

My Score: _____

My Score: _____

My Score: _____

My Score: _____

Combined Physics – Paper 2

Topic		Revise	Revisit
Foundation Tier			
Forces	Contact and non contact forces, weight, resultant forces, forces and elasticity (springs)		
Motion	Motion graphs, scalars and vectors (distance/displacement, speed/velocity), Newton's laws, stopping distances		
Waves	Transverse waves, longitudinal waves, wave speed equation, wave properties (frequency and wavelength) and wave behaviour (reflection and refraction)		
Electromagnetic waves	Electromagnetic spectrum, Uses and dangers of electromagnetic waves, visible light, infra red radiation		
Electromagnetism	Permanent and induced magnets, magnetic field lines, making an electromagnet		
Higher Tier			
Forces	Contact and non contact forces, weight, resultant forces in 2 dimensions forces and elasticity (springs)		
Motion	Motion graphs, scalars and vectors (distance/displacement, speed/velocity), Newton's laws, stopping distances, momentum		
Waves	Transverse waves, longitudinal waves, wave speed equation, wave properties (frequency and wavelength) and wave behaviour (reflection and refraction).		
Electromagnetic waves	Uses and dangers of electromagnetic waves, lenses, visible light (colours and filters), infra red radiation		
Electromagnetism	Permanent and induced magnets, making an electromagnet, motor effect		

Revision Sources

Online	Physical
<ul style="list-style-type: none"> • Seneca • BBC Bitesize, • Youtube "free science lessons" 	<ul style="list-style-type: none"> • CGP Revision Guide (available to buy on school gateway and collect from reception)

Combined Chemistry – Paper 2

Topic		Revise	Revis it
Foundation Tier			
Rates of reaction	Factors affecting rates of reaction, collision theory, reversible reactions		
Organic chemistry	Hydrocarbons, fractional distillation, alkenes, testing for saturation		
Chemical analysis	Purity and formulations chromatography, gas tests		
The atmosphere	The history of the atmosphere, carbon footprint, pollutants		
Using resources	Properties of materials, life cycle assessments, finite and renewable resources, potable water, waste water treatment		
Higher Tier			
Rates of reaction	Factors affecting rates of reaction, collision theory, reversible reactions le Chatelier's principle and dynamic equilibrium		
Organic chemistry	Hydrocarbons, fractional distillation, alkenes, testing for saturation, combustion of hydrocarbons		
Chemical analysis	Purity and formulations, chromatography, gas tests		
The atmosphere	The history of the atmosphere, carbon footprint, pollutants		
Using resources	Properties of materials, life cycle assessments, finite and renewable resources, potable water, waste water treatment		

Revision Sources

Online	Physical
<ul style="list-style-type: none"> • Seneca • BBC Bitesize, • Youtube "free science lessons" 	<ul style="list-style-type: none"> • CGP Revision Guide (available to buy on school gateway and collect from reception)

Triple Biology – Paper 2

Topic		Revise	Revisit
Foundation Tier			
Homeostasis and the nervous system	Homeostasis, reflex reactions and the nervous system, reaction times		
Hormones	Blood glucose, puberty and the menstrual cycle, fertility		
Inheritance	DNA, meiosis, genetic diagrams, inherited disorders		
Evolution	Mendel, variation, evolution, selective breeding, genetic engineering, cloning, fossils, classification		
Ecology	Competition, biotic and abiotic factors, food chains, water cycle, carbon cycle, global warming, maintaining biodiversity, biomass transfer		
Higher Tier			
Homeostasis and the nervous system	Homeostasis, reflex reactions and the nervous system, reaction times, controlling temperature		
Hormones	Blood glucose, the kidneys, puberty and the menstrual cycle, fertility		
Inheritance	DNA, meiosis, genetic diagrams, inherited disorders		
Evolution	Mendel, variation, evolution, selective breeding, genetic engineering, cloning, fossils, speciation, classification		
Ecology	Competition, biotic and abiotic factors, food chains, water cycle, carbon cycle, decay, global warming, maintaining biodiversity, biomass transfer, food security and farming		

Revision Sources

Online	Physical
<ul style="list-style-type: none"> • Seneca • BBC Bitesize, • Youtube "free science lessons" 	<ul style="list-style-type: none"> • CGP Revision Guide (available to buy on school gateway and collect from reception)

Computer Science (Paper 1)

Topic	Page	Key Terms	Revise	Revisit
Components of a Computer System				
Computer systems	1	Processing data, Embedded systems, complex systems		
The CPU	2-3	Cache, 5 Registers, ALU, Fetch-Decode-Execute, Von Neumann		
Memory	4	RAM, ROM (BIOS), Volatile, Non-Volatile, Primary, Secondary		
CPU performance	5	Cores, Clock speed, Cache size, GPU, CPU		
Secondary Storage	6-7	Electronic Solid State (SSD, USB flash), Magnetic (HDD, tape, cassette), Optical (CD, DVD, Blu-ray), (Properties - SCRAPDC)		
Systems software	8	Operating System (PIPISMEF)		
Utilities software	10	Defragmentation, Compression, Encryption		
Data Representation				
Units	12	bits, nibbles, Bytes, Kilobyte, Megabyte, Gigabyte, Terabyte		
Binary	13-15	128 64 32 16 8 4 2 1 Base 2, 0 or 1, binary shifts, overflow		
Hexadecimal	16-17	Base 16, 1 2 3 4 5 6 7 8 9 A B C D E, nibbles		
Characters	18	ASCII (7 bits), Extended ASCII (8 bits) Unicode – character sets of 1s and 0s to represent characters		
Storing images	19	Pixels, Colour Depth, Resolution, ppi, Metadata (device, date stamp, location)		
Storing sound	20	Sample rate (Hz), sample size (bits), duration (s), metadata (artist, song title, track number, genre etc)		
Compression	21	Lossy (png, jpeg, mp3), Lossless (zip)		
Networks				
LAN and WAN	23	Local Area Network, Wide Area Network, Bandwidth		
Network Hardware	24	NIC's , switches, hubs, routers, bridge, WAP. Ethernet, Fibre optics, wireless (wifi, bluetooth, 3G, 4G 5G)		
Client - Server, Peer-to-Peer	25	Servers, P2P, File Management, Backups		
Topologies	26-28	Ring, Bus, Star, Mesh. Edges and nodes.		
Protocols		Application (HTTP(S), FTP, POP, IMAP, SMTP), Transport (TCP/UDP), Internet (IP), Link/Network (wifi, ethernet). IP address, MAC address		
The Internet	29	www, Network of networks, URL, HTTP, HTTPS		
Security	30	Social Engineering, Malware, BOTS/BOTNET, SQL injections		
Issues – The Impact of Technology				
Ethical and Cultural	34	Digital Divide, Privacy, Censorship, Surveillance, Mental Health		
Environmental	38	Raw materials, E-waste, Energy usage, Renewable resources		
Legislation	39	Data Protection Act; GDPR; Copyright, Design and Patents Act; Computer Misuse Act		
Open Source and Propriety Software	40	Freeware, Shareware, Closed Source, Software Licences		

Revision Sources

- <https://www.bbc.co.uk/bitesize/examspecs/zmtchbk>
- <https://www.youtube.com/c/craigndave> (go to the OCR playlist!)
- <https://isaacomputerscience.org/topics/gcse?examBoard=all&stage=all#ocr>
- Smart Revise, GCSEPod or Seneca

- CGP Revision Guide (page ref above)
- Class book from Year 10
- Smart Revise

Computer Science (Paper 2)

Topic	Page	Key Terms	Revise	Revisit
Algorithms				
Computational Thinking	42	Decomposition, abstraction, algorithmic thinking , pattern recognition		
Pseudocode, ERL	43	Sequence, Instructions, unambiguous,		
Algorithms - Flowcharts	44	Terminators, Decision, Input/output, Process, Subroutine, Flow		
Algorithms - Search	45	Binary Search in an ordered list; Linear search for unordered lists		
Algorithms - Sort	49	Bubble sort; Merge sort, sub lists; Insertion sort		
Programming				
Data types	50	Integer, Real/Float, Boolean, Character, String, Casting		
Operators	51	Arithmetic operators, +, -, *, **(^), /, // (DIV), % (MOD) Assignment, =; Comparison, ==, !=, <>, <, <=, >=		
Variables	52	Assigned, Value, CONSTANTS, decent names, naming_convention		
Strings	53	Text, Concatenation (+), String Manipulation, Functions, x.upper(), x.lower(), x.length()		
Program Flow	54 - 56	IF statements, IF, ELSE, Nested IF, ELIF, Switch statements. FOR Loops, WHILE Loops, DO-UNTIL Condition-Controlled loop		
Boolean Logic	57 -59	Logic Gates, Boolean Operators, NOT, AND, OR, Truth Tables		
Randomisation	60	From Random Import randint (start, end)		
Arrays	61-62, 64	Data Structure, Element, One Dimensional Arrays, Update Arrays, Two Dimensional Arrays		
File Handling	63	Open, read, close, convert string to array, perform operations, convert to string, open, write/amend, close		
SQL, Storing and Searching databases	65	Records, Group Records, Select, From, Fields, Retrieve		
Sub Programs	66-67	Procedures, functions (return), called, built-in, parameters, arguments		
Design, Testing and IDE's				
Structured Programming	69	Structure diagrams (sub-programs), comments (relevant)		
Defensive Design	70	Input Validation (sausages!), Format, Authentication, Try: Except		
Testing	71	Syntax errors, Logic Errors, Runtime error; Source code, Invalid data, Test Plan, normal, boundary, erroneous; iterative testing		
Trace Tables	73	'Dry Run', change in variable values, loop or selection condition		
Translators, IDE's	74-75	High level (one-to-many), Low level (machine code, assembly language, one-to-one) Translated, Compiler (.exe), Interpreters (line by line), IDE Features, colours, auto-indent, error detection		
Revision Sources				
<ul style="list-style-type: none"> https://www.bbc.co.uk/bitesize/examspecs/zmtchbk https://www.youtube.com/c/craigndave (go to the OCR playlist!) https://isaacomputerscience.org/topics/gcse?examBoard=all&stage=all#ocr 		<ul style="list-style-type: none"> CGP Revision Guide (page ref above) Class book from Year 10 Smart Revise 		

Btec Sport

Topic	Key Concepts	Page	Revised	Revisit
AO1 Demonstrate knowledge of facts, components of fitness, fitness tests, training methods/processes/principles in relation to improving fitness in sport and exercise				
A1 The importance of fitness for successful participation in sport	Components of fitness Physical and Skill related Types of sports requiring specific components of fitness	Book 1 P.3 – P.6		
A2 Fitness training principles	FITT Additional Principles (overload, specificity, adaptation, individual differences, reversibility...)	P.7 – P.11		
A3 Exercise intensity and how it can be determined	Intensity (HR training Zones) Calculating Max HR Borg Scale Repetition Maximum for strength and muscular endurance gains	P.12 – P.16		
B Investigate fitness testing to determine fitness levels. Learners will understand why fitness testing is carried out and know				
B1 Importance of fitness testing and requirements for administration of each fitness test	Reasons for fitness testing Pre-test procedures Reliability of testing Validity & Practicality	P.17 – P.24		
B2 Fitness test methods for components of physical fitness	Know fitness testing for each component of fitness	P.25 – P.33		
B3 Fitness test methods for components of skill-related fitness	Know fitness testing for each component of fitness	P.34 – P.42		
B4 Interpretation of fitness test results	Use of normative data to interpret results	P.43 – P.46		

Notes:














Construction Unit 1

Topic	Page	Key Terms	Revise	Revisit
1.1: The Sector	2-10	Buildings and Structures, Infrastructure and Civil Engineering Products, Building services Engineering, Professional and Managerial Roles		
1.2: The Built Environment Life Cycle	12-25	Raw Material Extraction, Manufacturing, Construction, Operation and Maintenance, Demolition, Disposal, Reuse or Recycling		
1.3: Types of Building and Structure	26-32	Different forms of Infrastructure		
1.4: Technologies and Materials	32-54	Elements and Components of low rise buildings, Materials involved in walls, building services, fitting roofs, finishing interiors, Renewable technologies, materials, heat pumps, solar panels, wind turbines.		
1.5: Building Structures and Forms	54-62	Cellular Construction, Rectangular and Portal Framed Construction, Heritage and Traditional Methods		
1.6: Sustainable Construction Methods	62-68	The Environmental, Cultural, Social and Financial benefits of Sustainable Construction, Pollution and the Preservation of the Natural Environment.		
1.7: Trades, Employment and Careers	73-78	Bricklaying, Stonemasonry, Plastering, Carpentry and Joinery, Electricals, Plumbing, Painting and Decorating, Flooring and Tiling		
1.8: Health and Safety	78-93	Risks for Employees, Employers, Risks to the Public, Following Procedures, Health and Safety at Work Act 1974, Risk Assessments, Legislation, PPE, Gas, Water and Electricity, Working at Heights		

Revision Sources

Online	Physical
https://www.homebuilding.co.uk/ https://www.derby.gov.uk/environment-and-planning/planning/ https://www.wickes.co.uk/	Revision guide provided by teachers, WJEC Vocational Award Constructing The Built Environment Level 1/2 Award By Howard Davies








Food Preparation and Nutrition

Topic	CGP Page	Key Terms	Revise	Revisit
<u>Food Nutrition and Health</u>				
Macronutrients	1-5	Protein, Fats and Carbohydrates, function, sources, classifications i.e LVB, HBV etc... 		
Micronutrients, trace elements & Fibre and Water	10-13	Vitamins (Fat and Water soluble) Minerals, minerals and trace elements, fibre, water, function, sources 		
Healthy Eating Guidelines and Energy Needs	16, 23	Eat Well Guide 		
Age groups and nutritional needs	17, 18	Young children, teenagers, adults, the elderly, pregnant women. 		
Diet related health problems	19, 20	Obesity, Coronary Heart Disease (CHD), Anaemia, Diabetes, Skeletal issues 		
Nutritional analysis and Planning Meals	25-27	Following EWG, reducing salt, fat, sugar, factors to consider when planning meals lactose intolerance, nut allergies, coeliac disease, dietary choices 		
<u>Food Science</u>				
Why food is cooked and heat transfer	31,32	Reasons why, Conduction, Convection, Radiation 		
Cooking methods	33-36	Wet methods, dry methods, Fat-based methods 		
Changing properties of Carbs, Protein, Fats and Oils	39-41	Denaturing, Coagulation , Foams, Gluten formation, Gelatinisation , Dextrinisation, Caramelisation , Aeration, Shortening , Plasticity, Emulsification 		
Raising Agents	43	Chemical, biological, steam & mechanical 		
<u>Food Safety</u>				
Food Spoilage and Food poisoning	48,49, 53	Microorganisms, High risk foods, enzymes, moulds and yeasts, Bacteria – Ecoli, Listeria, Campylobacter, Staphylococcus aureus – control methods 		
Storing and Preparing Food Safely	50-52	Storage, cross contamination hygiene procedures, 		
Uses of microorganisms in Food production	54	Moulds, yeasts and bacteria 		

Revision Sources

Online	Physical
BBC Food Preparation and Nutrition, Food a Fact of Life, Seneca, GCSE Pod	CGP revision guides Question a day

Food Preparation and Nutrition

Topic	CGP Page	Key Terms	Revise	Revisit
<u>Food Choice</u>				
Food labelling, marketing and sensory testing	69-73	Laws and compulsory information, non-compulsory information, traffic light system, Marketing – special offers, brand endorsement, health claims, Sensory testing – How we taste, why we test ranking tests, rating test, star diagram,  		
Food choices and influences	59-62	PAL, Cost, Skills, Lifestyle, Seasonality, Availability, Religions – Christianity, Islam Hinduism, Judaism, Buddhism, Moral/Ethical - Animal Welfare, Environmental impact, Allergies and Intolerances 		
Cuisines (British and Interational)	63-65	British cuisine, international cuisine 		
<u>Food Provenance</u>				
Grown Food, Reared Food, Caught Food	78-81	Intensive v organic farming, GM crops, grown food, reared food, caught food, 		
Processing	92-95	Primary - Flour, milk, fruit and veg, Secondary – flour to pasta, fruit to jam, milk to cheese/yoghurt, Fortification, Additives, 		
Food and the environment	84-88	Waste and packaging, food miles and carbon footprint, global food production 		

Revision Sources

Online	Physical
BBC Food Preparation and Nutrition, Food a Fact of Life, Seneca, GCSE Pod	CGP revision guides Question a day

Travel and Tourism

Topic	Key Terms	Revise	Revisit
Factors that influence global travel and tourism			
Factors influencing global travel and tourism	Economic factors Political factors Natural factors Media Factors Safety and security factors Health and risk factors		
Response to factors	Response of travel and tourism organisations Response of governments Response of voluntary organisations		
Impact of Travel and Tourism sustainability			
Possible impacts of tourism	Sociocultural impacts (positive and negative) Economic impacts of tourism (positive and negative) Environmental impacts of tourism (positive and negative)		
Sustainable tourism	What is sustainable tourism The aims of sustainable tourism		
Managing sociocultural impacts	Educating visitors Transport and essential infrastructure Consulting local communities Shared ownership Taxes		
Managing economic impacts	Employment and training opportunities Supporting local communities Restricting foreign ownership Increasing visitor spend		
Managing environmental impacts	Managing visitors Managing traffic Controlling planning Educating visitors Controlling resources Protecting natural areas.		
Destination management			
Tourism development	Stages of the butler development model Emerging destinations Characteristics of emerging destinations Mature destinations Characteristics of mature destinations		
The role of local and national governments in tourism development	Reasons for governments to develop tourism The government roles in controlling tourism development		
The importance of partnerships in destination management	Types of partnership and their purpose Possible advantages of partnerships Possible disadvantages of partnerships		

Revision Sources

Online	Physical

Health and Social

Topic	CGP Page	Key Terms	Revise	Revisit
Section A - Factors affecting PIES				
Physical	16, 62, 73	Illness (chronic or acute)/Disability/Genetic Inheritance/Wellbeing		
Emotional	25, 65	Stress/Mental Health		
Social	20, 67	Relationships/Integration		
Economic	28,72	Financial/employment/unemployment/Income//Poverty/Wealth		
Environmental	26, 70	Pollution/Water/Air/Noise/Living conditions/Location		
Cultural	22, 68	Gender/Education/Stigma		
Life Event	32, 73-77	Expected/Unexpected/Positive/Negative		

Revision Sources

Online	Physical
Surviving Squalor: Britain's Housing Shame 1000lb sister's 24 hours in A&E	Class Booklets & Notes Exam Practice Papers & Questions Health and Social care Revision Guide (CGP)– Practice BTEC Health and Social care Revision Guide Pearson.

Child Development

Topic	Key Terms	Revise	Revisit
Section A			
Investigate individual needs that may impact on play, learning and development	<p>Physical needs:</p> <ul style="list-style-type: none"> - A child with a sensory impairment; visual or hearing impairment - A child who has delayed gross motor skills - A child who has delayed fine motor skills - A child who uses a wheelchair or walking frame to move around. - A child who has a long-term health or physical condition which restricts their physical activity or movement. <p>Cognitive/intellectual needs:</p> <ul style="list-style-type: none"> - Learning disability - Poor concentration levels - Memory issues - Difficulties in problem solving - A child who has delayed literacy skills. 		
Section B			
Create safe environments to support play, learning and development in children aged 0–5 years	<p>Manage risks and hazards of environments and activities. consider safety issues in the home, in community settings and in early years settings. They will need to consider adaptations that can be made for the following age groups:</p> <ul style="list-style-type: none"> ● 0–18 months ● 18 months–3 years ● 3–5 years. 		
Ensure all children are safe	<p>Manage risks and hazards of environments and activities:</p> <ul style="list-style-type: none"> - Consider the risks – likelihood of an environment, activity and/or resources causing harm - Consider the hazards – potential for an environment, activity and/or resource to cause harm - Risk assessments for activities – both indoors and outdoors - Positive risk taking – balancing the potential risk of harm against the benefit of children participating in activities; the benefits of children exploring/experimenting in a safe but challenging environment 		
Health and safety considerations for inside environments for children with individual needs	<ul style="list-style-type: none"> - Width of doorways, corridors. - Layout of furniture. - Types of flooring and floor coverings in the space, considering potential trip hazards. - How resources can be organised to enable children to find things easily. - Continuity of use of specific areas for play activities and routines. - Selecting appropriate resources to ensure safety, linked to the ability of the child. - Monitoring activities to ensure safety is being maintained. 		

Revision Sources

Online	Physical
	<p>Class Booklets & Notes Exam Practice Papers & Questions Revision pack from Mrs Stevenson</p>

Revision Strategies

Is your revision FLAT?



FOCUSED

- Put your phone away
- Turn the music off
- Avoid distractions
- Be in the right physical place to revise
- Be in the right frame of mind to revise



LONG-TERM

- Start early to cut down on stress later in the year
- Make a revision timetable and commit to it
- Plan for 3 - 4 hours a week from January
- Interleave different topics



ACTIVE

- Engage your brain by actively creating revision resources
- Test yourself, get others to test you
- Practise exam technique by writing or planning answers
- Revise what you struggle with



TRANSFORMED

- Transform the knowledge you want to learn into a different format
- Make flashcards
- Produce a timeline
- Record a podcast
- Invent a mnemonic
- Take Cornell notes
- Create a mindmap
- Design a flowchart
- Make a powerpoint
- Teach it

Flash Cards

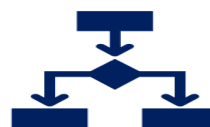
Write a question or prompt on one side of your flash card. Add colour and any pictures to help remind you of the content.



Complete the other side of your flash card with the answer or piece of information.

Mind Maps

Mind maps are a visual way to organise your information. One mind map should represent one topic.



Place the name of the topic in the middle, with sub-topics and further detail around it.

Note Taking

Start by taking your text book or revision guide, read them through whilst simplifying the text into easily manageable notes.



Then cover up those notes and test yourself by rewriting as much as you can remember.

Command Words

It is important to understand the different command words used on an exam paper.



Write a list of various command words such as explain, justify and evaluate and then add what each word is asking you to do.

Self-quizzing

Once you have made your revision resources it's time to test yourself.



Start by doing some fact recall quizzes before attempting some exam style questions.

Past Papers

When you have revised the information its time to fully test yourself using past papers.



It is important that you practise examination skills and use the official mark scheme to check your work.