

YEAR 12	
SUBJECT	REVISION TOPICS
English Literature	Twenty-first century poetry and a literary terminology test
English Language	Paper 1 (complete paper)
Biology	<p>The majority of the assessment material, at this time, will be relevant to material mostly covered in school and not during lock-down.</p> <p>From material mostly covered in the Autumn term of Year 12 prior to this Year's lock down (Teacher A)</p> <p>3.2.1.1 Eukaryotic Cell Structure</p> <p>3.2.1.2 Prokaryotic Cell and Virus Structure</p> <p>3.2.1.3 Methods of Studying Cells</p> <p>3.2.2 All Cells Arise From Other Cells</p> <p>3.1.7 Water</p> <p>3.1.8 Inorganic Ions</p> <p>3.1.6 ATP</p> <p>3.1.5.1 DNA and RNA Structure</p> <p>3.1.5.2 DNA Replication</p> <p>3.4.1 DNA Genes and Chromosomes</p> <p>3.4.2 DNA and protein synthesis</p> <p>Work covered in school since lock-down 2021</p> <p>3.4.6 Biodiversity within a Community</p> <p>3.4.7 Investigating Diversity</p> <p>From material mostly covered in the Autumn term of Year 12 prior to this Year's lock down (Teacher B)</p> <p>3.1.1 Monomers and Polymers</p> <p>3.1.2 Carbohydrates</p> <p>3.1.3 Lipids</p> <p>3.1.4.1 Proteins</p> <p>3.1.4.2 Enzymes</p> <p>3.2.3 Transport Across Membranes</p> <p>3.2.4 Cell Recognition and the Immune System</p> <p>Work covered in school since lock-down 2021</p> <p>3.3.2 Gas Exchange in Fish (revisited through required practical fish dissection)</p> <p>Gas Exchange In Plants to include Factors Affecting Water Loss</p>
Physics	<p>3.2.1 Particles</p> <p>3.2.1.1 Constituents of the atom</p> <p>3.2.1.2 Stable and unstable nuclei</p> <p>3.2.1.3 Particles, antiparticles and photons</p> <p>3.2.1.4 Particle interactions</p> <p>3.2.1.5 Classification of particles</p> <p>3.2.2 Electromagnetic radiation and quantum phenomena</p>

	<p>3.2.2.1 The photoelectric effect 3.2.2.2 Collisions of electrons with atoms 3.2.2.3 Energy levels and photon emission 3.2.2.4 Wave-particle duality</p> <p>3.3 Waves</p> <p>3.3.1 Progressive and stationary waves 3.3.1.1 Progressive waves 3.3.1.2 Longitudinal and transverse waves 3.3.1.3 Principle of superposition of waves and formation of stationary waves</p> <p>3.3.2.1 Interference 3.3.2.2 Diffraction 3.3.2.3 Refraction at a plane surface</p> <p>3.4 Mechanics</p> <p>3.4.1 Force, energy and momentum 3.4.1.1 Scalars and vectors 3.4.1.2 Moments 3.4.1.3 Motion along a straight line 3.4.1.4 Projectile motion (don't worry about the friction bit - to be completed later) 3.4.1.5 Newton's laws of motion 3.4.1.6 Momentum 3.4.1.7 Work, energy and power 3.4.1.8 Conservation of energy</p> <p>3.4.2 Materials 3.4.2.1 Bulk properties of solids 3.4.2.2 The Young modulus</p> <p>3.5 Electricity</p> <p>3.5.1.1 Basics of electricity 3.5.1.2 Current-voltage characteristics 3.5.1.3 Resistivity 3.5.1.4 Circuits 3.5.1.5 Potential divider 3.5.1.6 Electromotive force and internal resistance</p>
Maths	<p>Pure</p> <p>Chapter 1 – Algebraic Expressions Chapter 2 - Quadratics Chapter 3 – Equations and Inequalities Chapter 4 – Graphs and Transformations Chapter 5 – Straight line Graphs Chapter 6 - Circles Chapter 7 – Algebraic Methods Chapter 8 – The Binomial Expansion Chapter 9 – Trigonometric ratios Chapter 10 – Trigonometric Identities and Equations Chapter 11 – Vectors Chapter 12 – Differentiation Chapter 13 – Integration Chapter 14 – Exponentials and Logarithms</p>
Further Maths	<p>The pure content for Further Maths is:</p> <ul style="list-style-type: none"> • complex numbers • roots of polynomials • series • proof by induction • volumes of revolution • matrices, including manipulation of, transformation, and systems of linear equations

	<ul style="list-style-type: none"> vectors, including equation of straight lines, scalar product, equation of planes and finding distances between lines, planes, and points.
Drama	Summer examination will be a practical examination - devised group performance and "Our Country's Good" directors' portfolio.
Economics	All the chapters from the Theme 2 book
Environmental Science	Physical environment topic
French	Aspects of French-speaking society – current trends Artistic culture in the French-speaking world
German	Aspects of German-speaking society Artistic culture in the German-speaking world
Geography	Africa and global governance
Geology	Practical on Minerals, igneous, sedimentary, metamorphic and fossils
History	History A: British Empire, 1854-1914; Cold War 1945-1963 History B: Russia, 1855-1917; Modern Britain 1951-1979
Music	Year 12 - One Long Answer Question on the Set Works Studied to date (1hr)
P.E	<p>CFB - 1.1a and 1.1b from exam specification which can be accessed here https://www.ocr.org.uk/Images/234833-specification-accredited-a-level-gce-physical-education-h555.pdf</p> <p><u>Psychological and Socio-cultural themes</u> 1h 15min paper - 70 marks.</p> <ul style="list-style-type: none"> Skill Acquisition Sport Psychology Sport and Society <p><u>Biomechanics</u> Principles Levers Analysing movement through technology Linear motion Angular motion Fluid mechanics Projectile motion</p>
Politics	UK Constitution Parliament Executive (PM and Cabinet) Pressure Groups Voting behaviour and electoral systems
Philosophy	Situation Ethics Natural Law Kant Cosmological Argument Problem of Evil Religious Language Teleological argument Ontological argument