

YEAR 9	
SUBJECT	REVISION TOPICS
<b>English</b>	Literature: World War 1 Poetry. You will be presented with a poem you have studied in class. You will then choose a poem to compare it to from the World War 1 selection studied. The question will be: Compare how the poets present ideas about war.
<b>Maths</b>  <b>(inc. exercise number in book)</b>	Calculations, checking and rounding - 1A-E Factors, multiples and primes and negative numbers - 1F-J Algebra: the basics - 8A-M Fractions - 2A-D, 16A Polygons, angles and parallel lines - 6A-G Ratio and Proportion - 5A-E Averages and Range - 3C-E Perimeter, area and circles - 9A-D Representing and Interpreting data - 3A-B, Ex 18B Setting up rearranging and solving equations, including simultaneous equations - 15A-G Pythagoras' theorem and trigonometry - 11A-P Bearings and scale drawing - 6H Surds - 16F
<b>Biology</b>	<b>Work Covered in School in the Autumn term prior to lock-down</b> 4.1.1.1 Eukaryotes And Prokaryotes 4.1.1.2 Animal And Plant Cells 4.1.1.3 Cell Specialisation 4.1.1.4 Cell Differentiation 4.1.1.5 Microscopy 4.2.3.1 Plant Tissues 4.2.3.2 Plant Organ System 4.1.1.6 Culturing Microorganisms <b>Work covered in lock down but revisited on our return to School</b> 4.3.1.1 Communicable Diseases 4.3.1.2 Viral Diseases 4.3.1.3 Bacterial Diseases 4.3.1.4 Fungal Diseases 4.3.1.5 Protist Diseases 4.3.1.6 Human Defence Mechanisms 4.3.1.7 Vaccination <b>Work covered on our return to school</b> 4.3.1.8 Antibiotics And Painkillers 4.6.3.7 Resistant Bacteria 4.3.1.9 Discovery And Development Of Drugs
<b>Chemistry</b>	<b>Atoms</b> <b>Topic 1a in CGP book</b> History of the atom Atomic structure Isotopes and RAM calculations Electron arrangement  <b>Elements mixtures and compounds</b> <b>Topic 1a and 2b and also pages 254-256 in CGP book</b> Definitions and particle model States of matter Separation techniques Distillation Chromatography and Rf values

	<p><b>Periodic Table</b>  <b>Topic 1b in CGP book- NOT group 1 and 7</b>  History of the periodic table- Newlands and Mendeleev  Metals and non-metals  Groups and periods  Patterns of electrons and ion charges  Noble gases and transition metals</p> <p><b>Structure and bonding</b>  <b>Topic 2a in CGP book</b>  Covalent bonding- dot and cross diagrams  Covalent bonding simple molecules  Giant covalent structures- Diamond, Graphite  Fullerenes and graphene  Surface area to Volume calculations  Nanoscience and its uses  Ionic bonding- dot and cross diagram  Giant ionic structures</p> <p><i>Resources</i>  CGP books- revision guide and workbook  SAM learning and Kerboodle have a range of practice questions for you to complete as part of your revision  You will need a scientific calculator, ruler, pen, pencil and rubber.</p>
<p><b>Physics</b></p>	<p><b>A large part of the Y9 exam is using formulae.</b>  <b>You need to memorise the following formulae and know how to rearrange them:</b>  density = mass / volume  pressure = force / area  moment = force x perpendicular distance (of line of action) of force  speed = distance/ time  weight = mass x gravity</p> <p><b>You will be given these formulae if needed, but you still need to be able to rearrange them and choose correct units:</b>  pressure in a liquid = 10 x height of (or depth in) liquid x density of liquid  acceleration = change in velocity / time</p> <p><b>The following units are the main ones used, however you may be asked to convert from smaller or larger values (such as changing centimetres into metres)</b>  speed (velocity) = m/s or mph for vehicles  acceleration = m/s<sup>2</sup>  force (including weight) = N  pressure = N/m<sup>2</sup> or Pa  mass = kg  moment = Nm</p> <p><b>Topics will include:</b>  Density  Kinetic Theory  Pressure  Pressure in liquids  Law of Floatation  Archimedes' Principle  Atmospheric Pressure</p>

	Pressure in Gases Moments, Levers and Gears Structure of Universe Forces (Newton's Laws of Motion) Weight Speed (Velocity) Satellites and Orbits
<b>Religious Education</b>	<b><u>Christian beliefs</u></b> God Trinity Incarnation resurrection Atonement crucifixion After life, judgement, heaven and hell  <b><u>Christian practices</u></b> Worship Prayer Baptism Eucharist Pilgrimage Christmas and Easter
<b>French</b>	GCSE Unit 1: Family, friends and relationships GCSE Unit 2: New technology
<b>German</b>	Free time (music / cinema / TV / food / sport) Some of Family (yet to be covered)
<b>Geography</b>	Natural Hazards, Population and development
<b>History</b>	Trench life and warfare The Treaty of Versailles A choice of essay titles from life in Nazi Germany, Hitler's rise to power, or causes of the Second World War.
<b>Computer Science</b>	How a computer works, memory and logic gates
<b>Music</b>	Construction of the major scale, including position of tones and semitones. Scales and key signatures of the major keys of C, G, D and F in both clefs with their tonic triads, degrees, and intervals above the tonic by number only

**No exams in art, Drama, DT, citizenship, PE or games**