

Combined Science Revision List

Biology Paper 1 (Paper 1)

Cell structure and processes (Key concepts in Biology)	Cell structure Enzymes Transport of substances Bitesize exam questions	Seneca HT Seneca FT Topic 1 to 5
Cells and control	Cell division Mitosis Co-ordination and control Bitesize exam questions	
Genetics	Reproduction and genes Genetic inheritance 1 Changing the genes Bitesize exam questions	
Natural selection and genetic modification	Evolution Bitesize exam questions	
Health and disease	Communicable diseases Treating, curing and preventing disease Making medicines Non-communicable diseases Bitesize exam questions	

Chemistry Paper 1 (Paper 2)

Key concepts in chemistry	Equations and formulae Hazards and risks Atomic structure The periodic table Ionic compounds Simple molecular substances Giant covalent substances Metal and non-metal Chemistry calculations HT Mole calculations Bitesize exam questions	Seneca HT Seneca FT Topic 1 to 4
States of matter and mixtures	States of matter Changes of state Separation and purification Bitesize exam questions	
Chemical changes	Acid and alkalis Salts Electrolysis Bitesize exam questions	
Extracting metals and equilibria	Obtaining and using metals Reversible reactions and equilibria Bitesize exam questions	

Physics Paper 1 (Paper 3)

Key concepts in physics	Key concepts	Seneca HT
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Motion and forces	Scalar and vector quantities Motion Newtons laws HT Momentum Motion of vehicles Bitesize exam questions	Seneca FT Topic 1 to 6
Conservation of energy	Changes in energy Efficiency Energy sources Bitesize exam questions	
Waves	Properties of waves Bitesize exam questions	
Light and electromagnetic spectrum	Electromagnetic waves Bitesize exam questions	
Radiation	Atoms Nuclear radiation Uses and dangers of radioactivity Bitesize exam questions	

Biology Paper 2 (Paper 4)

Cell structure and processes (Key concepts in Biology)	Cell structure Enzymes Transport of substances Bitesize exam questions	Seneca HT Seneca FT Topic 1, 6 to 9
Plant structure and function	Photosynthesis Plant organisation Bitesize exam questions	
Animal co-ordination, control and homeostasis	Endocrine system Hormones in human reproduction Homeostasis in humans Bitesize exam questions	
Animal exchange and transport	Gas exchange Cellular respiration and transport Bitesize exam questions	
Ecosystems and material cycles	Adaptations, interdependence and competition Organisation of an ecosystem Biodiversity Natural cycles and decomposition Bitesize exam questions	

Chemistry Paper 1 (Paper 2)

Key concepts in chemistry	Equations and formulae Hazards and risks Atomic structure	Seneca HT Seneca FT
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	The periodic table Ionic compounds Simple molecular substances Giant covalent substances Metal and non-metal Chemistry calculations HT Mole calculations Bitesize exam questions	Topic 1, 5 to 7
The Periodic table	Group 1 – alkali metals Group 7 – the halogens Group 0 – noble gases Bitesize exam questions	
Rates of reaction and energy changes	Rates of reaction Heat energy change in chemical reactions Bitesize exam questions	
Fuels and Earth science	Fuels Earth and atmospheric science Bitesize exam questions	

Physics Paper 1 (Paper 6)

Forces doing work	Transferring energy Power and efficiency Bitesize exam questions	Seneca HT Seneca FT Topic 1, 7 to 9 Ensure that <u>forces and matter</u> in also revised
Forces and their effects	Forces Bitesize exam questions	
Electricity and circuits	Electric circuits Mains electricity Bitesize exam questions	
Magnetism and the motor effect	Magnets and magnetic fields HT Electromagnets (motor effect) Bitesize exam questions	
Electromagnetic induction	Electromagnetic induction Bitesize exam questions	
Particle model	Density of materials Temperature changes and energy States of matter Particles in gases Bitesize exam questions	
Forces and matter	Forces and elasticity Bitesize exam questions	



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