

## **Separate Science Revision List**

### **Biology Paper 1**

Cell structure and processes (Key concepts in Biology)	<a href="#">Cell structure</a> <a href="#">Enzymes</a> <a href="#">Transport of substances</a> <a href="#">Bitesize exam questions</a>	<a href="#">Seneca</a> HT <a href="#">Seneca</a> FT Topic 1 to 5
Cells and control	<a href="#">Cell division</a> <a href="#">Mitosis</a> <a href="#">Co-ordination and control</a> <a href="#">Bitesize exam questions</a>	
Genetics	<a href="#">Reproduction and genes</a> <a href="#">Genetic inheritance 1</a> <a href="#">Genetic inheritance 2</a> <a href="#">Bitesize exam questions</a>	
Natural selection and genetic modification	<a href="#">Evolution</a> <a href="#">Genetic modification</a> <a href="#">Bitesize exam questions</a>	
Health and disease	<a href="#">Communicable diseases</a> <a href="#">Plant disease</a> <a href="#">Treating, curing and preventing disease</a> <a href="#">Making medicines</a> <a href="#">Non-communicable diseases</a> <a href="#">Bitesize exam questions</a>	

### **Biology Paper 2**

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

[Biology core practicals](#)

### **Chemistry Paper 1**

Key concepts in chemistry	<a href="#">Equations and formulae</a>	<a href="#">Seneca</a> HT
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	<a href="#">Hazards and risks</a> <a href="#">Atomic structure</a> <a href="#">The periodic table</a> <a href="#">Ionic compounds</a> <a href="#">Simple molecular substances</a> <a href="#">Giant covalent substances</a> <a href="#">Metal and non-metal</a> <a href="#">Chemistry calculations</a> <a href="#">HT Mole calculations</a> <a href="#">Bitesize exam questions</a>	<a href="#">Seneca</a> FT Topic 1 to 5
States of matter and mixtures	<a href="#">States of matter</a> <a href="#">Changes of state</a> <a href="#">Separation and purification</a> <a href="#">Bitesize exam questions</a>	
Chemical changes	<a href="#">Acid and alkalis</a> <a href="#">Salts</a> <a href="#">Electrolysis</a> <a href="#">Bitesize exam questions</a>	
Extracting metals and equilibria	<a href="#">Obtaining and using metals</a> <a href="#">Reversible reactions and equilibria</a> <a href="#">Bitesize exam questions</a>	
Separates 1	<a href="#">Transition metals, alloys and corrosion</a> <a href="#">Percentage yield, atom economy and gas calculations</a> <a href="#">More chemical calculations</a> <a href="#">Fertilisers and chemicals</a> <a href="#">HT Industrial chemical reactions</a> <a href="#">Chemical cells and fuel cells</a> <a href="#">Bitesize exam questions</a>	

## **Chemistry Paper 2**

Key concepts in chemistry	<a href="#">Equations and formulae</a> <a href="#">Hazards and risks</a> <a href="#">Atomic structure</a> <a href="#">The periodic table</a> <a href="#">Ionic compounds</a> <a href="#">Simple molecular substances</a> <a href="#">Giant covalent substances</a> <a href="#">Metal and non-metal</a> <a href="#">Chemistry calculations</a> <a href="#">HT Mole calculations</a> <a href="#">Bitesize exam questions</a>	<a href="#">Seneca</a> HT <a href="#">Seneca</a> FT Topic 1, 6 to 9
Groups of the periodic table	<a href="#">Group 1 – alkali metals</a> <a href="#">Group 7 – the halogens</a> <a href="#">Group 0 – the noble gases</a> <a href="#">Bitesize exam questions</a>	
Rates of reaction and energy change	<a href="#">Rates of reaction</a> <a href="#">Heat energy changes in chemical reactions</a> <a href="#">Bitesize exam questions</a>	
Fuels and Earth science	<a href="#">Fuels</a> <a href="#">Earth Science (atmosphere)</a> <a href="#">Bitesize exam questions</a>	
Separate chemistry 2	<a href="#">Testing for ions</a> <a href="#">Hydrocarbons</a> <a href="#">Polymers</a> <a href="#">Alcohols and carboxylic acids</a> <a href="#">Nanoparticles and their uses</a> <a href="#">Bulk materials</a>	

	<a href="#">Bitesize exam questions</a>	
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## [Chemistry core practicals](#)

### **Physics Paper 1**

Key concepts in physics	<a href="#">Key concepts</a>	<a href="#">Seneca</a> HT <a href="#">Seneca</a> FT  Topic 1 to 7
Motion and forces	<a href="#">Scalar and vector quantities</a> <a href="#">Motion</a> <a href="#">Newtons laws</a> <a href="#">HT Momentum</a> <a href="#">Motion of vehicles</a> <a href="#">Bitesize exam questions</a>	
Conservation of energy	<a href="#">Changes in energy</a> <a href="#">Efficiency</a> <a href="#">Energy sources</a> <a href="#">Bitesize exam questions</a>	
Waves	<a href="#">Properties of waves</a> <a href="#">Reflection and refraction</a> <a href="#">Sound and ultrasound</a> <a href="#">Bitesize exam questions</a>	
Light and electromagnetic spectrum	<a href="#">Light waves</a> <a href="#">Lenses</a> <a href="#">Electromagnetic waves</a> <a href="#">Bitesize exam questions</a>	
Radiation	<a href="#">Atoms</a> <a href="#">Nuclear radiation</a> <a href="#">Uses and dangers of radioactivity</a> <a href="#">Nuclear power</a> <a href="#">Bitesize exam questions</a>	
Astronomy	<a href="#">The solar system</a> <a href="#">The Universe</a> <a href="#">The life cycle of stars</a> <a href="#">Bitesize exam questions</a>	

### **Physics Paper 1**

Forces doing work	<a href="#">Changes in energy</a> <a href="#">Power and efficiency</a> <a href="#">Bitesize exam questions</a>	<a href="#">Seneca</a> HT <a href="#">Seneca</a> FT  Topic 1, 8 to 15
Forces and their effects	<a href="#">Forces</a> <a href="#">Effects of forces</a> <a href="#">Bitesize exam questions</a>	
Electricity and circuits	<a href="#">Electric circuits</a> <a href="#">Mains electricity</a> <a href="#">Bitesize exam questions</a>	
Static electricity	<a href="#">Static electricity</a> <a href="#">Bitesize exam questions</a>	
Magnetism and the motor effect	<a href="#">Magnets and magnetic fields</a> <a href="#">HT Electromagnets</a> (motor effect) <a href="#">Bitesize exam questions</a>	
Electromagnetic induction	<a href="#">Electromagnetic induction</a> <a href="#">Transformers</a> <a href="#">Bitesize exam questions</a>	
Particle model	<a href="#">Density of materials</a> <a href="#">Temperature changes and energy</a> <a href="#">States of matter</a> <a href="#">Gases</a> <a href="#">Bitesize exam questions</a>	

Forces and matter	<a href="#">Forces and elasticity</a> <a href="#">Pressure in fluids</a> <a href="#">Bitesize exam questions</a>	
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[Physics core practicals](#)



## **Pearson Edexcel GCSE Science - Core Practical Videos - ver. 4.0**

This document has the up to date links for the core practical videos available for GCSE Combined Science, GCSE Biology, GCSE Chemistry and GCSE Physics. Links to each video will become "live" as the videos are published. Keep an eye on the quals news page to see when new videos can be accessed.



### **GCSE Combined Science (Biology) | GCSE Biology**

**Additional practicals needed for GCSE Biology**

### **GCSE Combined Science (Chemistry) | GCSE Chemistry**

**Additional practicals needed for GCSE Chemistry**

### **GCSE Combined Science (Physics) | GCSE Physics**

**Additional practical needed for GCSE Physics**