

Key Stage 3 Science Curriculum overview

Teacher Marking

- One assessed exam question per topic.
- One assessed investigation write-up per term.
- One exam at the end of each term.

Homework

- One piece of written homework per topic.
- One online homework quiz per topic.
- One ILT per year
- Ongoing revision of topics for assessments.

Year 7 Biology

Lesson	Unit	Lesson Title	Teacher Assessment
1	7B1 Cells to Movement	Using a Microscope	
2		Animal Cells	
3		Plant Cells	Exam Question
4		Assessment Follow Up Lesson	
5		Specialised Cells and Uni-Cellular Organisms	
6		Cell Organisation	
7		The Skeleton	
8		Joints and Muscles	
9		Muscle Strength Investigation	
10		End of Topic Review Lesson	

Lesson	Unit	Lesson Title	Teacher Assessment
1	7B2 Reproduction	Sex Organs	
2		Fertilisation in Humans	
3		Pregnancy	
4		Birth and Babies	Exam Question
		Assessment Follow Up Lesson	
5		Puberty and Periods	
7		Flowers and Pollination	
8		Fertilisation and Seed Spreading	
9		Seed Dispersal Investigation	
10		End of Topic Review Lesson	

Lesson	Unit	Lesson Title	Teacher Assessment
1	7B3 Ecology	Photosynthesis	
2		Leaves and Roots	Exam Question
3		Assessment Follow Up	
4		Food Chains	
6		Food Webs	
7		Pyramids of Number and Biomass	
8		Interdependence	
9		Habitats and Adaptation	
10		Holly Leaf Investigation	Teacher Marked Investigation
11		End of Topic Review Lesson	

Year 7 Chemistry

Lesson	Unit	Lesson Title	Teacher Assessment
1	7C1- Matter and Separation Techniques	States of matter	
2		Explaining the properties of states of matter	
3		State changes	Exam question
4		Assessment follow up	
5		Dissolving and saturation	
6		Dissolving investigation	
7		Filtration and evaporation	
8		Distillation	
9		Chromatography	
10		Review lesson	

Lesson	Unit	Lesson Title	Teacher Assessment
1	7C2- Atoms, elements and the periodic table	The Periodic Table	
2		Atoms and Elements	
3		Compounds and formula	
4		Properties of metals and non- metals	Exam question
5		Assessment follow up	
6		Word equations and chemical/ physical changes	
7		Compounds investigation 1	
8		Compounds investigation 2	Teacher marked Investigation
9		Conservation of mass	
10		Review lesson	

Lesson	Unit	Lesson Title	Teacher Assessment
1	7C3- Earth, rocks and atmosphere	Structure of the earth and tectonic plates	
2		The atmosphere	
3		Weathering and Erosion	
4		Sedimentary rocks	Exam question
5		Assessment follow up	
6		Igneous and metamorphic rocks	
7		Rock cycle	
8		Fossils	
9		Review lesson	

Year 7 Physics

Lesson	Unit	Lesson Title	Teacher Assessment
1	7P1 Electricity	Static electricity	
2		Conductors and insulators	
3		Series and parallel circuits	Exam question
4		Assessment follow up	
5		Current in series and parallel	
6		Potential difference in series and parallel	
7		Resistance	
8		Resistive putty investigation 1	
9		Resistive putty investigation 2	Teacher marked investigation
10		Review lesson	

Lesson	Unit	Lesson Title	Teacher Assessment
1	7P2 Forces	Forces and how we measure them	
2		Resultant forces	
3		Resistive forces 1- friction	
4		Resistive forces 2- water and air resistance	Exam question
5		Assessment follow up	
6		Calculating speed	
7		Distance time graphs	
8		Moments	
9		Review	

Lesson	Unit	Lesson Title	Teacher Assessment
1	7P3- Energy and pressure	Energy transfers and conservation of energy	
2		Hooke's law investigation	
3		Thermal energy transfer 1- conduction	
4		Thermal energy transfer 2- convection	
5		Thermal energy transfer 3- radiation	Exam question
6		Assessment follow up and evaporation	
7		Pressure of solids on surfaces	
8		Pressure in liquids	
9		Atmospheric pressure	
10		Review lesson	

Year 8 Biology

Lesson	Unit	Lesson Title	Teacher Assessment
1	8B1 Diet and Health	The Digestive System	
2		A Balanced Diet	
3		Food Tests	
4		Malnutrition	Exam question
		Assessment Follow Up	
5		Energy in Food	
8		Smoking	
9		Alcohol	
10		Drugs	
11		End of Topic Review Lesson	

Lesson	Unit	Lesson Title	Teacher Assessment
1	8B2 Breathing and Respiration	Lung Structure	
2		Breathing	Exam Question
3		Assessment Follow Up	
4		Aerobic Respiration	
5		Diffusion and Gas Exchange	
6		Anaerobic Respiration	
7		The Effect of Exercise	
8		Asthma	
9		End of Topic Review Lesson	

Lesson	Unit	Lesson Title	Assessment
1	8B3 Genetics and Evolution	Classification	
2			
3		Variation	
4		Genetic and Environmental Variation	Exam Question
5		Assessment Follow Up	
6		Genes and Inheritance	
7		Modelling Genetic Material	
8		Evolution	
9		Bird Beak Investigation	Teacher Marked Investigation
10			
11		Biodiversity	
12		End of Topic Review Lesson	

Year 8 Chemistry

Lesson	Unit	Lesson Title	Teacher Assessment
1	8C1- Acids and Alkalis	Hazard Symbols	
2		Acids, alkalis and indicators	
3		Red cabbage indicator	
4		Neutralisation	Exam Question
5		Assessment follow up	
6		Antacids investigation 1	
7		Antacids investigation 2	Investigation
8		Metals and acids	
9		Metals, carbonates and acids	
10		Review	

Lesson	Unit	Lesson Title	Teacher Assessment
1	8C2- Metals and Non Metals	Properties of metals and non metals	
2		Metals and metal alloys	
3		Ceramics, polymers and composites	
4		Oxidation and combustion	
5		Metal displacement reactions	
6		Extracting metals from their ores	Exam question
7		Assessment follow up	
8		Thermal decomposition	
9		Catalyst investigation	
10		Review lesson	

Lesson	Unit	Lesson Title	Teacher Assessment
1	8C2- GCSE Bridging Unit	Acids, elements and compounds	
2		The periodic table	
3		Electronic configuration	Exam question
4		Assessment follow up	
5		Group 1 trends	
6		Group 7 trends	
7		Group 0 trends	
8		Endo and Exothermic reactions	
9		Chemical Bonding	
10		Review lesson	

Year 8 Physics

Lesson	Unit	Lesson Title	Teacher Assessment
1	8P1 Space and Electromagnetism	Our solar system within the universe	
2		Day and night	
3		The seasons	
4		The big bang and space exploration	
5		Gravitational field strength	Exam question
6		Assessment follow up	
7		Magnets and magnetic fields	
8		Electromagnets investigation 1	
9		Electromagnets investigation 2	Teacher marked investigation
10		Motors	
11		Review lesson	

Lesson	Unit	Lesson Title	Teacher Assessment
1	8P2 Waves	Transverse and longitudinal waves	
2		Amplitude and frequency	
3		The Ear	
4		Applications of sound waves	Exam question
5		Assessment follow up	
6		Reflection of light	
7		Refraction of light	
8		Coloured light	
9		Travelling waves investigation	
10		Convex and concave lenses	
11		Review lesson	

Lesson	Unit	Lesson Title	Teacher Assessment
1	8P3 Energy and our homes	Fossil fuels and power stations	
2		Efficiency of appliances	
3		Domestic fuel bills	Exam question
4		Assessment follow up	
5		Global warming	
6		Climate change	
7		Reduce, reuse, recycle	

8		Carbon cycle	
9		Energy resources	
10		Review lesson	