

Science Overview — Year 9



	Units	Assessment	Homework
Autumn	Non-communicable Diseases Following on from communicable disease to investigate the risk factors and causes of non-transferrable diseases such as heart disease.	End of Unit Test Literacy Task - Cholesterol	Broadsheet
	Earth's Resources Water treatment, renewable & non-renewable resources, reduce, reuse and recycle and life cycle assessments	End of Unit Test Required practical (RP)- desalination of water	Broadsheet
	Energy Resources Students will find out where we get our energy from, evaluate different sources of energy, and research alternatives. Students will then learn how thermal energy is transferred and how to slow transfers down to keep homes warm (insulation).	End of Unit Test Required practical (RP) – Thermal insulation	Broadsheet
	Mid-Year Exam		
	Chromatography A short practical based unit of work to understand a technique that chemists use to separate some types of mixture	Required practical (RP) - Chromatography	Exam style questions
Spring	Communicable Diseases Introduction to the spread of disease and hygiene using laboratory techniques to grow and test bacterial cultures safely.	End of Unit Test Required practical (RP) – investigating disinfectants and antibiotics.	Broadsheet
	Alkanes Students will gain a foundation of understanding about organic compounds that are found in fossil fuels to form a base to understand these fascinating chemicals at GCSE	End of Unit Test Literacy task	Broadsheet
	Wave Properties Students will learn about how to draw and calculate the forces acting on objects. They will analyse and explain how objects move and accelerate.	End of Unit Test Required practical (RP) – Waves in solids and liquids	Broadsheet

End of Year Exam			
Summer	Biodiversity & Ecosystems Looking at the effects of humans on the planet covering such topics as biodiversity, deforestation, acid rain and habitat protection.	End of Unit Test Literacy Task – Deforestation Context Question – Effects of increasing human population	Broadsheet
	Earth's Atmosphere The carbon cycle, greenhouse gases and the greenhouse effect and atmospheric pollutants. Reading chemical formulae and balancing equations.	End of Unit Test Literacy task (RLit) – controlling atmospheric pollutants	Broadsheet
	Forces in Balance & Motion Students will learn about how to draw and calculate the forces acting on objects. They will analyse and explain how objects move and accelerate.	End of Unit Test Required Practical: Extension of a Spring	Broadsheet