

National curriculum or specification coverage

KS3 NC— Working Scientifically content
 KS3 NC— Relationships in an Ecosystem
 KS3 NC— Energy Changes and Transfers
 KS3 NC— Forces and Pressure
 KS3 NC— Atoms, Elements, and Compounds
 KS3 NC— The Periodic Table
 KS3 NC— Chemical Reactions
 KS3 NC— Energetics
 KS3 NC— Gas Exchange Systems
 KS3 NC— Waves
 KS3 NC— Current Electricity
 KS3 NC— Cells and Organisation

Date	Exams/ Assessments	Learning Intentions	Core Task/Assessments
31/08/26		8B4 Plants & Ecosystems - Explain to concept of competition within an ecosystem - Describe how adaptations play a role in an organisms ability to survive - Explain the process of reproduction in plants - Use correct key scientific terms throughout 8P5 Energy Transfers - Describe the difference between temperature and heat - Explain the process of conduction, convection, and radiation - Evaluate different insulating materials and make reasoned arguments 8P6 Forces - Define pressure - Understand the concepts of changes in pressure due to altitude and depth	8B4 End of Unit Assessment
07/09/26			8P5 End of Unit Assessment
14/09/26			8P6 End of Unit Assessment
21/09/26			
28/09/26			
05/10/26			
12/10/26			

Year 8 Long Term Scheme of Learning 2026-2027
Subject: Science

19/10/26		· Calculate pressure · Draw graphs to represent the relationship between pressure and altitude/depth	
26/10/26	HALF TERM		
02/11/26		8C5 Chemical Reactions · Understand the different between chemical and physical changes · Be able to write word equations showing the rearrangement of atoms · Identify key reactions including; combustion, thermal decomposition, oxidation, and displacement. · Explain the function of a catalyst 8C6 Energetics · Describe the energy transfers occurring in both chemical and physical changes · Define the terms exothermic and endothermic · Safely carry out investigations into energy changes · Be able to draw and interpret reaction profiles for exothermic and endothermic changes	8C5 End of Unit Assessment
09/11/26			8C6 End of Unit Assessment
16/11/26			
23/11/26			
30/11/26			
07/12/26			
14/12/26			
21/12/26	CHRISTMAS HOLIDAY		
28/12/26			
04/01/27		8B5 Human Systems · Understand the function and adaptations of the respiratory and the circulatory systems · Explain the function of all organs within these systems, and the roles they play in the overall functioning of the human body · Describe the effect of different factors on these systems, including; smoking, exercise, and asthma	AP1 Assessment
11/01/27	Y8		8B5 End of Unit Assessment
18/01/27	Y8		
25/01/27			
01/02/27			
08/02/27			
15/02/27	HALF TERM		
22/02/27		8P7 Waves · Describe the difference between transverse and longitudinal waves · Label key parts of the two types of waves · Calculate wave speed · Describe how sound travels through a medium and through the ear · Describe uses of ultrasound 8P8 Magnetism · Magnets have North and South poles. · Opposite poles attract, like poles repel. · Magnetic materials become temporary magnets in a magnetic field.	8P7 End of Unit Assessment
01/03/27			8P8 End of Unit Assessment
08/03/27			
15/03/27			

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22/03/27		· A magnetic field is the area around a magnet where magnetic forces act. · Earth has a magnetic field caused by its spinning iron–nickel core (dynamo effect). · An electromagnet is created when electric current flows through a coil of wire.	
29/03/27	SPRING BREAK		
05/04/27			
12/04/27		8C7 Earth and the Atmosphere · Identify and describe the four layers of Earth: crust, mantle, outer core, inner core · Compare igneous, sedimentary, and metamorphic rocks · Explain how rocks change from one type to another · Describe how carbon moves through the environment · Identify the main gases in Earth’s atmosphere · Identify causes, effects, and solutions to climate change 8B6 Bioenergetics · Aerobic respiration uses oxygen to release lots of energy in mitochondria. · Anaerobic respiration releases less energy and produces lactic acid in animals or ethanol and carbon dioxide in yeast. · Photosynthesis uses light, carbon dioxide, and water to produce glucose and oxygen in chloroplasts. · Leaves are adapted for photosynthesis with chloroplast-rich palisade cells, stomata, and a large surface area. · Photosynthesis is affected by light intensity, carbon dioxide concentration, and temperature.	8C7 End of Unit Assessment
19/04/27			8B6 End of Unit Assessment
26/04/27			
03/05/27			
10/05/27			
17/05/27			
24/05/27			
31/05/27	HALF TERM		
07/06/27	Y8	8B7 Inheritance · Genetic characteristics are passed from parents to offspring through DNA · Genes are sections of DNA and alleles are different versions of the same gene · Dominant and recessive alleles determine visible traits, and Punnett squares can predict the probability · Variation between individuals can be genetic, environmental, continuous, or discontinuous · Genetic engineering involves modifying an organism’s DNA by adding, removing, or changing genes	AP2 Assessment
14/06/27	Y8		8B7 End of Unit Assessment
21/06/27			
28/06/27			
05/07/27			
12/07/27			