



Curriculum Overview for Science

Year 7

Half Term 5: Land vs Sea	Model reading and highlighting to pick out key
Substantive Knowledge:	details, reading of data, Skim reading
Discuss some of the pollution that human release.	
Describe how genetics are passed from parent to child	
Describe how animals and plants are adapted.	
Describe how objects can have different densities	
☐ Explain why some objects float and other sink.	Photosynthesis
Describe how tectonics plates move.	Respiration
Describe how sedimentary, igneous and metamorphic	Genes
rocks are made.	Haploid
Describe how rocks are weathered and eroded.	Adaptation
	Natural selection
Describe the rock cycle.	Extinction
	Extremophile
Disciplinary Knowledge:	Sampling
Use of quadrats	Quadrat
Draw a punnet square.	Convection
'	Igneous rock
Can we Live on Mars?	Sedimentary rock
	Metamorphic rock
Substantive Knowledge:	Weathering
Describe mass and weight	Erosion
Disciplinary Knowledge:	Deposition
Safe use of practical equipment.	Cementation
Use appropriate techniques, apparatus and materials	Rock cycle End of unit assessment
during lab work/practical.	Recall Test
Ask questions and develop a line of enquiry based on	I → ✓
observations of the real world.	=>
Make and record observations.	
	Article Homework to promote reading like a
	scientist
	Revision for end of unit assessment
Half Term 6: Can we Live on Mars?	Model reading and highlighting to pick out key
	details, reading of data, Skim reading
Substantive Knowledge:	
 Describe mass and weight 	
Describe content of a healthy human balanced diet.	
Explain consequences of unbalanced diet.	
Describe photosynthesis and explain how to maximise	Mass
it.	Weight Force diagram
☐ Describe how to create pure substances (e.g potable	Force diagram
water).	Resultant force
$f \Box$ Describe and explain simple techniques of separation.	Drag Solar System
lacktriangle Describe the Earth and atmosphere (structure and	Extra-terrestrial
composition).	Atmosphere
Explain which of the Earth's resources we use most.	Living
Describe motion and forces using diagrams and	Resource
graphs.	Respiration
Recognise when forces are balanced and unbalanced.	Food group
Explain how resultant forces impact motion.	Diet
Describe the Earth's tilt, gravity and other features.	Deficiency
Explain how the Earth's features impact things like	Inhale
seasons, year length and day length.	Exhale
scasons, year length and day length.	Glucose





	Wider links to the world and diversity
Disciplinary Knowledge: □ Safe use of practical equipment. □ Use appropriate techniques, apparatus and materials during lab work/practical. □ Ask questions and develop a line of enquiry based on observations of the real world. □ Make and record observations. □ Carry out food tests. □ Use separation techniques.	Photosynthesis Fertiliser Yield Rate Pure Food miles Sustainable Population Overuse End of unit assessment Recall Test
	Article Homework to promote reading like a scientist Revision for end of unit assessment