


We will learn: The Earth

Element	More ambitious 		
The Earth	<p>Name the layers of the Earth Describe the properties of the different layers of the Earth's structure</p> <p>Compare the different layers of the Earth in terms of their properties</p>	<p>Name the main components of the atmosphere</p> <p>Describe the composition of the atmosphere</p> <p>Describe the composition of the atmosphere in terms of abundance of components</p>	<p>Design a simple model of the Earth using information about its structure</p> <p>Describe advantages and disadvantages of a given model of the Earth's structure.</p> <p>Explain why models are good or poor representations of the Earth's structure in terms of materials used.</p>
Sedimentary Rocks	<p>State a property of sedimentary rocks.</p> <p>Explain two properties of sedimentary rocks.</p>	<p>Describe simply how sedimentary rocks are made.</p> <p>Explain how sedimentary rocks are made.</p> <p>Give a detailed explanation of the sedimentary rock cycle.</p>	
Weathering	<p>Name 3 types of weathering</p>	<p>Describe at least one way that rocks can be weathered</p>	<p>Explain how different conditions can affect rocks</p> <p>Describe and explain 3 types of weathering and the rocks that would be affected</p>
Fossils in Rocks	<p>What is a fossil?</p>	<p>How are fossils formed?</p>	<p>What can fossils tell us about rocks? What can fossils tell us about evolution?</p>
Igneous Rocks	<p>From what are igneous rocks formed? What is one property of igneous rocks?</p>	<p>Why does cooling rate affect the size of crystals in igneous rocks?</p>	<p>What are the names of 3 examples of igneous rock and How was each formed?</p>

Metamorphic Rock	<p>What conditions are needed for the formation of metamorphic rocks?</p> <p>What are the properties of metamorphic rocks?</p> <p>What happens to the properties of the rock when metamorphism takes place?</p>	<p>What models can we use to describe metamorphism, how useful are the models?</p> <p>What are the properties of slate and what can it be used for?</p>	Can you use and interpret information on metamorphic rocks?
The Rock Cycle	<p>What are the names of the 3 main rock types?</p> <p>What does the rock cycle show us?</p>	Can you describe the main steps in the rock cycle?	Can you explain, in detail, how the rock cycle works?
The Carbon Cycle	<p>What is a carbon store? Can you give some examples?</p> <p>Which processes add carbon dioxide to the atmosphere?</p> <p>Which processes take carbon dioxide from the atmosphere?</p>	What are the word equations for 3 processes involved in the carbon cycle?	Why did the concentration of carbon dioxide in the atmosphere not change for many years?
Climate Change	<p>What is global warming?</p> <p>What gas is the main cause of global warming?</p>	What human activities contribute to global warming?	What is the difference between the greenhouse effect and global warming?
Recycling	<p>List four items that can be recycled.</p> <p>Say why things should be recycled</p>	Explain how aluminium is recycled.	<p>Analyse the advantages and disadvantages of recycling.</p> <p>Apply mathematics to calculate results</p>