Scheme of Learning: Earth & Atmosphere

Topic Sequence:

1	2	3	4	5	6	7	8	9
Acids & Alkalis	Motion & Pressure	Photosynthesis & Respiration	Metals & Materials	Waves	Inheritance & Evolution	Earth & Atmosphere	Space	Ecosystems & Interdependence

Topic Overview:

The key stage three national curriculum requires the following content to be taught:

- the composition of the Earth
- the structure of the Earth
- the rock cycle and the formation of igneous, sedimentary and metamorphic rocks
- Earth as a source of limited resources and the efficacy of recycling
- the carbon cycle
- the composition of the atmosphere
- the production of carbon dioxide by human activity and the impact on climate

Lesson Sequence:

We begin by studying the structure and composition of the Earth by describing the crust, mantle and inner and outer core. We include the composition of the atmosphere at this point. We the move onto the rock cycle by describing the properties and formation of sedimentary, igneous and metamorphic rocks and the processes that transform one rock type to another. We then study how carbon is cycled around the environment by natural and artificial processes before looking at the impact humans have on the environment with respect to the importance of recycling and the causes and consequences of climate change.

Sequence of Lessons:

1	Structure of the Earth
2	Sedimentary Rocks
3	Igneous & Metamorphic Rocks
4	The Rock Cycle
5	The Carbon Cycle
6	Recycling
7	Climate Change
8	Assessment

Resources:

1	Laminated Earth Structure Fact Sheets
2	Examples of sedimentary rocks
3	Molten salol, 30x cold slides from freezer, 30x hot slides. Examples of igneous and metamorphic rocks
4	White, dark, milk chocolate, cheese garter, kitchen foil.
5	n/a
6	n/a
7	n/a
8	Test in shared folder

Supportive Reading:

Comprehension activity	TBC

Assessment:

Knowledge:	20 question multiple choice quiz
Application of Knowledge:	Extended writing task