У8

## Rationale

In this topic students will study the structure of the Earth and the Earths Atmosphere. They will explore how we use Earths resources (including metals) and the impact this is having on our planet. Therefore the importance of sustainable development will be studied.

Diagrams	Keywords	Definitions
crust mantle inner core outer ore	Crust Mantle	The Rocky outer layer of the Earth The Layer below the crust, solid but can move very slowly.
	Outer Core	Surrounds the inner core
	Inner Core	Earths inner most layer
Weathering and erosion	The Rock Cycle	Sequence of processes where rocks change from one type to another over millions of years
igneous rock Slow uplift to surface Transportation and deposition someous	Sedimentary Rock	Formed from layers of sediment and can contain fossils e.g. limestone and chalk
Sedmentation  Compaction and	Metamorphic Rock	Formed from existing rock exposed to heat and/or pressure over long periods of time e.g. marble
Metlung Metamorphic rock Cementation  Magma from molten Burial, high temperatures Sedimentary rock  crust and mantle and pressures rock	Igneous Rock	Formed when lava or magma cools and freezes e.g. granite
	Fossil Fuels	Non renewable fuels formed over millions of years from dead plants and animals
	Renewable	An energy source that can be replaced and will not run out.
	Non renewable/Finite	An energy source that cannot be replaced once it has run out
	Metals	Elements on the left hand side of the periodic table
	Properties of metals	Most metals are shiny, good electrical and heat conductors, malleable, ductile and solid at room temperature.
	Sustainable Development	development that meets the needs of the present without reducing the ability of future generations to meet their own needs
	Reduce	Creating less waste
	Reuse	Finding a new use for items rather than throwing them away
	Recycle	Recycling resources