



Key vocabulary

rock	A naturally occurring material made of minerals. They can be different sizes: <ul style="list-style-type: none"> stones pebbles boulders
fossil	The bones or other remains of living things are sometimes preserved in rocks as fossils.
soil	Ground up rock mixed with plant and animal remains.



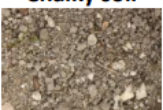

Prior learning:

- *Distinguish between an object & the material from which it is made.
- Identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock.
- Describe the simple physical properties of a variety of everyday materials.
- Compare and group together a variety of everyday materials on the basis of their simple physical properties. (All the above - Y1 - Everyday materials)
- Identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses. (Y2 - Uses of everyday materials)

Soils

The property of soils is affected by the:

- type of rock
- size of rock pieces
- amount of organic matter in it.

Peat 	- water-logged - contains partially decomposed plant material - soft and easily compressed
Sandy soil 	- light and dry - lots of air gaps so water drains through quickly
Chalky soil 	- stony and water drains through quickly - found in areas with lots of chalk
Clay soil 	- very sticky when wet - a heavy soil - water does not drain through it quickly

Fossil formation

Fossils were formed millions of years ago.

- 1 Plants and animals died and sank to the seabed.
- 2 The soft parts decayed away leaving the hard parts.
- 3 The hard parts were covered and squashed by many layers of sand and other materials.
- 4 The animal/plant matter dissolves and is replaced by minerals, leaving a replica of the original bone called a fossil.

Animal fossil



Plant fossil






Can I answer:

- * Can I name some types of rock and give physical features of each?
- * Can I explain that soils are made from rocks and also contain living/dead matter?
- * Can I explain how a fossil is formed?

Types of rocks




Sedimentary

sandstone 	limestone 
chalk 	Chalk is used for drawing because it is crumbly and soft.

Metamorphic

quartzite 	slate 
marble 	Marble is good for gravestones because it does not rub away.

Igneous

basalt 	pumice 
granite 	Granite is good for worktops because it is hard and does not absorb water.

Words to describe the appearance of

