





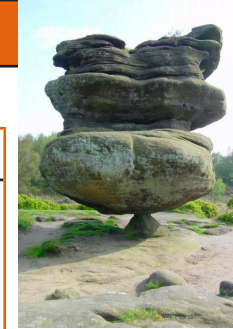


# What is beneath our feet?

## Different types of rocks:

Sedimentary		Metamorphic		Igneous	
sandstone 	<ul style="list-style-type: none"> <li>drawing</li> <li>building walls</li> <li>bricks</li> <li>concrete</li> <li>glass</li> </ul>	slate 	<ul style="list-style-type: none"> <li>gravestones</li> <li>tiles</li> <li>work surfaces</li> <li>sculptures</li> <li>paving</li> </ul>	pumice 	<ul style="list-style-type: none"> <li>worktops</li> <li>gravestones</li> <li>dead skin removal</li> <li>cleaning product</li> <li>construction</li> </ul>
chalk 		marble 		granite 	



## 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



## 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

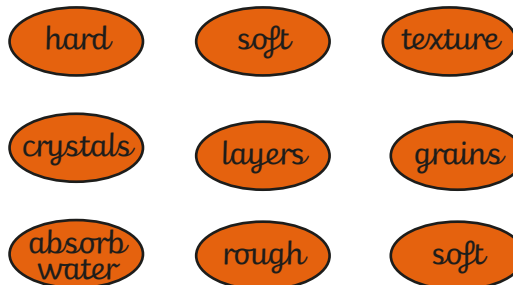


- very sticky when wet
- a heavy soil
- water does not drain through it quickly

## Vocabulary



rock	A naturally occurring material made of minerals. They can be different sizes: <ul style="list-style-type: none"> <li>• stones</li> <li>• pebbles</li> <li>• boulders</li> </ul>
permeable	Allows liquid to pass through it
impermeable	Does not allow liquid to pass through it
Sedimentary	Rock that has been formed by layers of sediment being pressed down hard and sticking together
Metamorphic	Rock that started out as igneous or sedimentary rock but changed due to extreme heat or pressure
Igneous	Rock that has been formed by magma or lava
erosion	When water, wind or ice wears away land
absorption	When an object takes in another substance
fossil	The bones or other remains of living things are sometimes preserved in rocks as fossils
Palaeontology	Study of fossils
soil	Ground up rock mixed with plant and animal remains.
sediment	Natural soil and material that is moved and dropped off in a new place by water or wind
moisture	Water in a small quantity



## Words to describe the appearance of rocks:




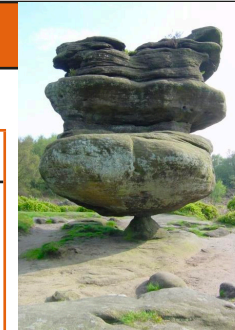
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Metamorphic	
slate 	<ul style="list-style-type: none"> <li>gravestones</li> <li>.....</li> <li>work surfaces</li> <li>sculptures</li> <li>paving</li> </ul>
..... 	

Igneous	
..... 	<ul style="list-style-type: none"> <li>worktops</li> <li>gravestones</li> <li>dead skin removal</li> <li>.....</li> <li>.....</li> <li>construction</li> </ul>
granite 	



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## Words to describe the appearance of rocks:

hard

.....

texture

crystals

layers

grains

absorb

rough

.....

shiny

dull

dense