

Year Three Science Knowledge Organiser: The Rock Cycle (Autumn 1)

What I should already know: *Rocks are found in nature* *There are different types of rocks* *Fossils are found in rocks*

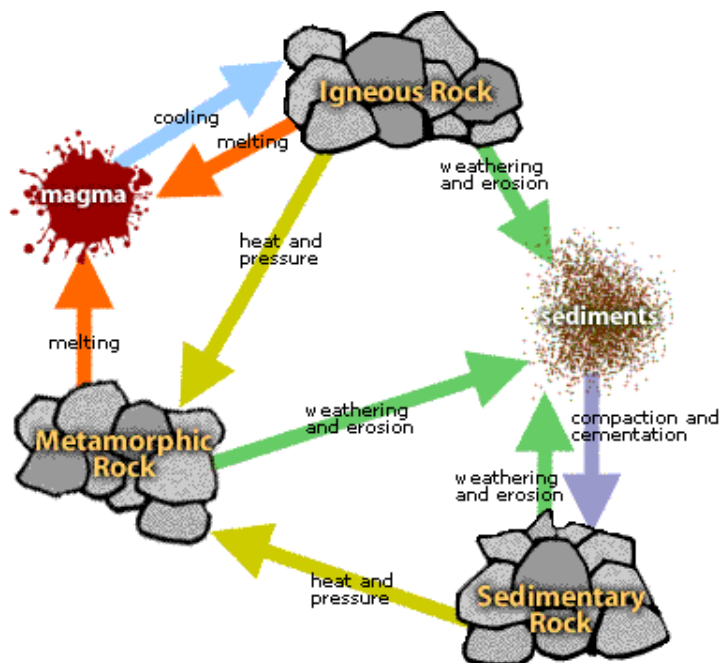
Rocks come in a huge variety of colours, textures, hardnesses and densities. Common rocks include:

Rock name	Type
Pumice	Igneous
Obsidian	Igneous
Granite	Igneous
Marble	Metamorphic
Shale	Sedimentary
Slate	Metamorphic
Sandstone	Sedimentary
Chalk	Sedimentary
Basalt	Igneous
Clay	Sedimentary

Skills and knowledge you will develop and refine in this unit:
Investigate the properties of a range of rocks to identify them
Determine soil types by investigating its properties
Examine the permeability of a range of rocks
Learn the definitions of the 3 main types of rock
Draw, explain and act out the Rock Cycle
Understand why fossils are only found in sedimentary rocks
Use clues from fossils to tell us about the lives of animals which are now extinct
Label a diagram of the fossil cycle


Other key vocabulary to learn:

Topic specific:	fossil	layers
	geologist	hardness
	geology	sediment
	palaeontologist	extinct
General scientific vocab:	fair test	investigation
	experiment	results
	conclusion	variable



Sandy soil	Peaty soil	Loamy soil
Has sand in it Quite light in colour Fairly dry No large particles	Dark in colour Wet Lots of medium and large particles	Quite dark in colour, but not as dark as peaty soil Slightly damp Some medium and large particles



All questions are worth 1 mark unless stated. Total marks available: 10.	Start of unit	End of unit		Start of unit	End of unit
1. Tick the 3 main rock types.			5. Tick the ONLY type of rock that fossils can be found in.		
metamorphic			sedimentary		
arable			igneous		
igneous			metamorphic		
sedimentary			6. Write down the word that means all of a species of animal or plants has died, so that none of that species are left alive in the whole world.		
dairy			7. Put the fossil cycle pictures (on a separate sheet) in the right order.		
2. Match the rock type to its definition. (done on a separate sheet)			8. From this picture of a fossilised Velociraptor head, tick the one type of food you can tell it must have eaten.		
3. write S, I or M next to each rock to show what type it is. The first has been done for you (3 marks).					
Marble	M	M	vegetables		
Obsidian			plants		
Slate			other animals		
sandstone					
4. Write down the names of the 3 main soil types.			Total score (out of 10)		