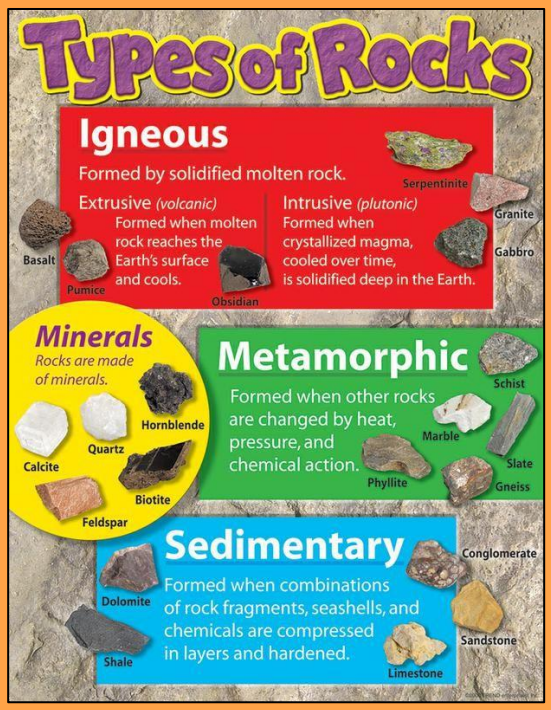
ROCK N ROLL – ROCKS AND FOSSILS

YEAR 3



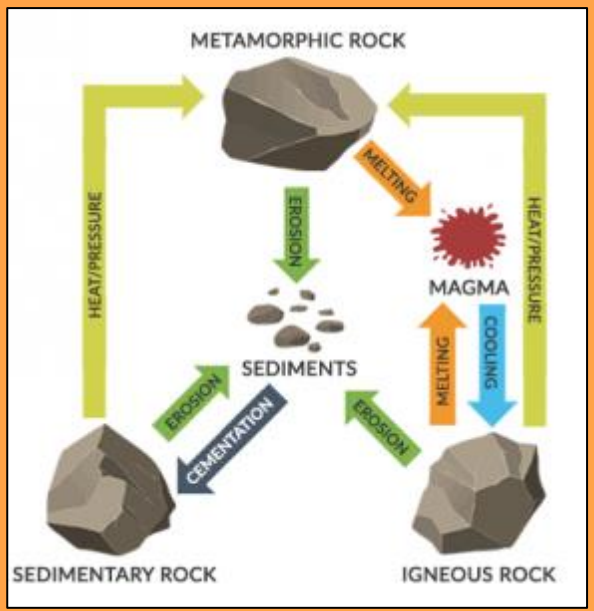
LINKS IN THE CURRICULUM:

Year 1 – materials
Year 2 – materials
Year 4 – matters of state
Year 5 – materials and change

KEY VOCABULARY	
Rock	A solid mineral material forming part of the surface of the earth.
Soil	The upper layer of work in which plants grow.
Stone	A hard, solid mineral matter of which rock is made, especially as a building material.
Pebble	A small stone made smooth and round by action of water or sand.
Mineral	A solid, naturally occurring substance.
Permeable	Liquids or gases can pass through something.
Non-permeable	Liquids or gases cannot pass through something.
Erosion	The gradual destruction by wind, water or other natural elements.
Weathering	Wear away or change the appearance or texture of something.
Organic matter	Materials that come from a recently living organism.
Fossil	The remains or impression of a plant or animal in rock.
Texture	The feel, appearance or consistency of a surface.
Bedrock	The solid rock found under the soil.
Subsoil	Soil lying underneath the surface soil.

Key Facts:

- Layers of sediments are pressed hard and stick together to form sedimentary rock. You can see the layers within the rock.
- Igneous rocks are formed by magma or lava which then cools down.
- Metamorphic rock is when either sedimentary or igneous rock changes due to extreme heat or pressure.
- Igneous and Metamorphic rocks have more similar characteristics than Sedimentary rock.
- Fossils are formed when an animal or plant dies and is layered with sediments. Over years, sedimentary rock compresses over it while the organism decays leaving a hole or mould left in the rock.
- Soil is formed from eroded rock mixing with air, water and animal or plant particles.
- There are different layers underneath our feet!



Working Scientifically

- Observing rocks and exploring how and why they changed over time.
- Using a hand lens to help identify and classify rocks according to whether they have grains, crystals, and whether they have fossils in them.
- Research and discuss different kind of living things that are found in sedimentary rock and explore how fossils form.
- Explore different soils and identify similarities and differences.
- Investigate hardness and permeability of rocks.
- Raising and answering questions about the way soils are formed.