Science Knowledge Organiser

Strand: Chemistry **Topic: Rocks**

Southwold Primary School 355

What should I already know?

- Identify and name everyday materials and describe their physical properties.
- Identify and compare the suitability of a variety of everyday materials for particular uses.
- **Soil** contains **nutrients** and these help plants to grow.
- The meaning of the word absorb.

What will I know by the end of this unit?

There are three types of rocks that are formed naturally.

- Bricks and concrete are not rocks because they are man-made.
- **Fossils** are the remains of **prehistoric** life.
- They are usually formed when a living thing (plant or animal) dies, and the body is covered up or buried by **sediment** over tens of thousands of years.
- Some **fossils** are formed when the tough bones and teeth in animals, and the woody part of plants are preserved.
- Other fossils are made from imprints in surrounding
- That volcanoes can erupt bringing out lava, molten rock and ash.

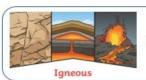
Working Scientifically

• Sort different types of rocks based on how rough or smooth they are, whether they have grains or crystals, how permeable they are, how easily they can break down, how strong they are and what they look like.

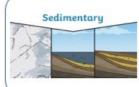
Explain why **rocks** are used for different purposes based on their properties.

- Investigate which rocks are permeable.
- Investigate which rocks are hard-wearing.
- Research the different living things whose fossils are found.
- · Explore different kinds of soils.

Three types of rocks

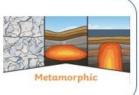


Rock that has been formed by magna or lava.



Rock that has been formed by layers of sediment being pressed down hard and sticking together.

Rock that started as igneous or sedimentary but changed due to being exposed to extreme heat or pressure.



Fossils in rocks

rock.

An animal dies. It gets More layers of rock cover covered with sediments it. Only hard parts of which eventually become the creature remain, e.g. bones, shells and teeth.



Over thousands of years, As sediment might enter the weathering take mould to make a cast eventually fossil. Bones may change becomes exposed. to mineral but will stay the same shape.



place. fossil

