



Jerry Clay Academy  
Subject Knowledge Organiser

Subject: Science (Rocks) Year Group: 3 Term: Autumn

### Core Learning of This Unit:

- To recognise different types of rock and soil and their properties
- To compare and group together different kinds of rocks on the basis of their appearance and simple physical properties.
- To describe in simple terms how fossils are formed when things that have lived are trapped within rock.
- To recognise that soils are made from rocks and organic matter

### Prior Learning:

From KS1 and 2: Children should know how to compare and group everyday materials on the basis of their properties



### National Curriculum Statements:

Pupils should be taught to:

- compare and group together different kinds of rocks on the basis of their appearance and simple physical properties
- describe in simple terms how fossils are formed when things that have lived are trapped within rock
- recognise that soils are made from rocks and organic matter.

### Key Vocabulary:

- Rock -A hard, solid material that is made of minerals and is found in nature.
- Soil -The top layer of the ground, in which plants grow; dirt.
- Mineral -A solid, natural material that does not come from a living thing.
- Metamorphic rock -Rock formed when any type of rock goes through changes caused by extreme heat and pressure (e.g. marble, slate).
- Igneous rock -Rock formed by the cooling and hardening of hot magma or lava. Formed by volcanoes! (e.g. basalt, granite).
- Sedimentary rock- Rock formed when sediment is pressed together over time. Formed over a long period of time (e.g. shale, limestone, sandstone).
- Rock cycle -The series of changes that rock undergoes over time as it shifts between different types.
- Fossil- The remains of a plant or animal that turned to stone over a long period of time.
- Weathering -The process of wearing away
- Erosion -The process of transporting and wearing away rocks or soil as loose articles that are moved by water, wind, ice or gravity.

### Significant People

Mary Anning (21 May 1799 – 9 March 1847) was an English fossil collector, dealer, and palaeontologist who became known around the world for important finds she made in Jurassic marine fossil beds in the cliffs along the English Channel at Lyme Regis in the county of Dorset in Southwest England.