

What I Should Already Know:

- That objects are made from materials which are either solids, liquids and gases.
- All materials have properties which make them suitable for different purposes.

Skills & Enquiry:

1. How can I identify different kinds of rock?

2. How can I identify different kinds of soil?



Mary Anning

Unit Specific Vocabulary:

- fossil** - The prehistoric remains of a plant or animal.
There are cast, trace and body fossils.
- horizons** – The layers in a soil profile – O, A, B, C and Bedrock
- igneous** - Rock formed from magma
- impermeable** - Does not allow water to pass through
- magma** - Hot liquid rock
- metamorphic** - Rock that has been changed by heat or pressure
- mineral** - A natural substance that makes up rock
- paleontologist** - Scientist who studies the remains of plants and animals that lived millions of years ago.
- pedologist** – A Scientist who studies soil
- permeable** - Allows water to pass through
- rock** – A material made from one or more minerals
- sedimentary** - Rock made from sediment
- soil** – A material made from minerals, water, air and other organic matter such as leaves
- names of some rocks:** granite / marble / sand / clay / limestone

What I should know by the end of the Unit:

- What are the three different kinds of rocks?
- How are rocks formed?
- What are the properties of different rocks?
- How can we test the features of different rocks?
- What are fossils?
- How are fossils made?
- Who was Mary Anning?
- What is soil made of?
- What are the layers of soil?
- Are all soils the same?
- What are the different soils?
- How can we investigate different soils?

Key Facts:

Types of Rocks

METAMORPHIC ROCKS

IGNEOUS ROCKS

SEDIMENTARY ROCKS



METAMORPHIC ROCKS ARE FORMED WHEN THE MINERALS IN ROCKS ARE CHANGED UNDERGROUND BY HEAT AND PRESSURE.



IGNEOUS ROCKS ARE CREATED WHEN MAGMA COOLS AND BECOMES SOLID.



SEDIMENTARY ROCKS ARE MADE OF PARTICLES OF SEDIMENTS SUCH AS SAND AND CLAY, OR THE SKELETONS AND SHELLS OF SEA CREATURES.



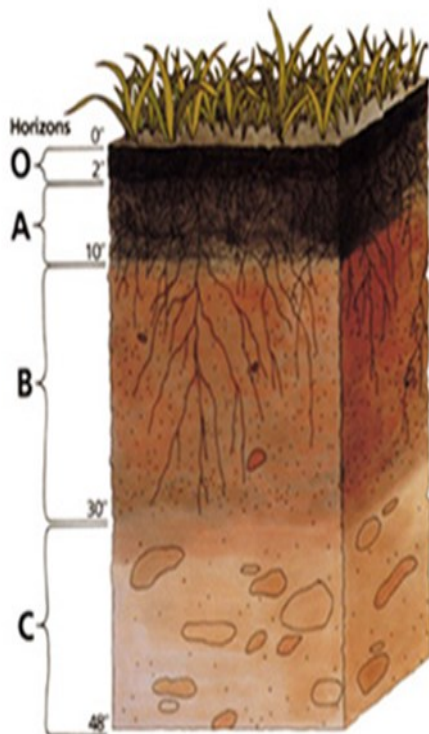
3 Fossil types:

Trace

Cast

Body

A Soil Profile



The Six Soil Types

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