



Shadsworth Junior School



Curriculum

Year 3 Scheme of Work

Term: Spring 1 and 2

Topic: Science - Rocks

Key Skills and Knowledge:

Rocks

- 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

Working Scientifically

Set up simple practical enquiries and comparative tests when identifying the properties of different rocks.

Make systematic and careful observations and where appropriate take accurate measurements when comparing the permeability of soils.

Reading and Writing Opportunities (Long and Short Activities) Creative Ideas and Hooks

Take notes and write about how igneous, sedimentary and metamorphic rocks are formed.

Sort rocks as to whether they are natural or man-made. Also sort the natural rocks into igneous, sedimentary or metamorphic.

Complete a carousel of activities testing the properties of the different types of rock e.g. hard/ soft, permeable/ impermeable and high/ low density.

Identify what different rocks are used for and why, with reference to their properties.

Sort the steps of the fossilisation process.

Make a soil pudding to show the different soil layers.

Investigate the permeability of different types of soil.

Links to PSHCE, Equality and British Values Work

Famous women in history – Mary Anning the fossil hunter. (female scientist / diversity link)

Key Vocabulary:

Igneous, sedimentary, metamorphic, volcano, lava, magma, sediment, density, permeable, impermeable, hard, soft, fossil, dinosaurs, top soil, subsoil, parent material, bedrock, layers.

Resources Available / Visits/Visitors

Samples of rock
Samples of soils
Filter papers,
Funnels,
Sand paper,
pipettes

Useful Websites:

<http://www.bbc.co.uk/education/clips/zdchyrd>
<http://www.bbc.co.uk/education/clips/zmwvcdm>
<http://www.bbc.co.uk/education/clips/znx4wmn>

Previous Knowledge:

Explore/ compare things that are living, dead or have never been alive.

Identify and compare the suitability of everyday materials e.gg. wood, rock for particular uses.