



KS2 Science

Year 3 - Information for Teachers

National Curriculum objectives:

Working Scientifically

- Making systematic and careful observations and, where appropriate, taking accurate measurements.
- Recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables.
- Reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions.
- Identifying differences, similarities or changes related to simple scientific ideas and processes.
- Using straightforward scientific evidence to answer questions or to support their findings.

Plants

- Identify and describe the functions of different parts of flowering plants: roots, stem/trunk, leaves and flowers.
- Explore the requirements of plants for life and growth (air, light, water, nutrients from soil, and room to grow) and how they vary from plant to plant.
- Investigate the way in which water is transported within plants.

Rocks

- Compare and group together different kinds of rocks on the basis of their appearance and simple physical properties.

Activities:

1) Mother Shipton's Science Trail:

- * Children use the booklet as they go through the park and spot the different types of trees from their trunks. They use the information given to describe the different parts of plants and their jobs to a partner. They also look at how the water from the well petrifies objects and the three different types of naturally forming rocks.

2) PowerPoint presentation. The presentation can be used back in the classroom as a follow-on activity as children:

- * Revisit trees spotted.
- * Look at what different parts of a plant do.

Mother Shipton's

- * Label the parts of a flower and tree.
- * Look at what plants need to grow and how they would be affected if they did not have these things.
- * Look at how the requirements of life for plants vary .
- * Explore BBC Bitesize clips on plants: <https://www.bbc.co.uk/bitesize/topics/zy66fg8>
- * Look at what soil is: <https://www.bbc.co.uk/bitesize/clips/z7rb4wx>
- * Investigate different soils to distinguish which soil is most porous and therefore best to use for planting
- * Share ideas and complete investigation sheet

Resources needed:

- *Pencils*
- *Rubbers*
- *String*
- *Paper*
- *Soil investigation sheet (provided).*
- *Soil - three different types*
- *Funnels*
- *Water*