



Lower KS2 Geography - Information for Teachers

National Curriculum link:

Name and locate geographical regions and their identifying human and physical characteristics, key topographical features (including rivers), and understand how some of these aspects have changed over time.

Describe and understand key aspects of:

- Physical geography, including: rivers, and the water cycle.
- Human geography, including: energy, minerals and water.
- Use fieldwork to observe, measure, record and present the human and physical features in the local area using a range of methods, including sketch maps.

Science objectives:

- 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.

Activities:

1) Trail (to be used as children go around the park):

- * Children spot key landmarks in the park relating to rivers such as the stream, weir, viaduct and Petrifying Well. These are all explained in child-friendly language.
- * Children identify the Petrifying Well platform susceptible to flooding. They then discuss how flooding is caused and what makes flash floods particularly dangerous.
- * The process of petrification is explained.
- * The three types of natural rocks are explained - igneous, metamorphic and sedimentary.
- * Spot the difference - children find geographical differences between the well 5 years ago and the well now.
- * Children finally map the park and the key landmarks for members of the public as they walk through.

2) PowerPoint presentation:

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

- ✓ Revisit landmarks spotted.
- ✓ Look at porous and non-porous rocks - experiment with water reduction.

Mother Shipton's

- ✓ Group rock crystals according to size, shape, colour, texture, durability and density.
- ✓ Look at the three types of naturally forming rocks - igneous, metamorphic and sedimentary. Explore Bitesize for videos: <https://www.bbc.co.uk/bitesize/articles/zsgkdmn>
- ✓ Study flooding in more detail, understand how flash floods are caused.
- ✓ Watch video of flooding: <https://www.youtube.com/watch?v=nup5oYJo26w>
- ✓ Create their own flooding prevention method to prevent flooding of the Petrifying Well platform and houses along the river Nidd.
possible extension activity ideas included.

Resources needed:

- *Pencils*
- *Rubbers*
- *Porous & non-porous rock*
- *Measuring jugs*
- *Selection of rocks and rock crystals (available to purchase from the museum)*