

Rocks Lesson 2

Naming and Classifying

Science KS2 Year 3



Rocks Lesson 2: Naming and Classifying Rocks

Science

Key Stage 2 Year 3

Learning aims

Pupils should be able to:

- Compare and group rocks together into the three different rock categories.
- Observe rocks, including those used in buildings and gravestones.
- Explore how and why they might have changed over time.
- Use a magnifying glass or microscope to help identify and classify rocks.

Curriculum links:

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

Keywords

Igneous. Sedimentary. Metamorphic. Marble. Granite. Sandstone. Slate. Crystals. Grains.

These can also be found at the end of this PDF.

(Children will need to see and touch rocks by going out and about for this sequence.)

PowerPoint presentation

The accompanying PowerPoint presentation has 25 slides, providing an introduction to the subject of rocks. You may wish to split it up into more than one lesson. The PowerPoint offers regular opportunities for classroom discussion.

Following the lesson, you may wish to set the children tasks or activities pertinent to your school and locality.

- Perhaps the class can go out to look for different types of rocks.
- After, they could prepare and present a presentation of their findings.



The slides are presented as follows:

- Slides 1 and 2 provide an introduction to the naming and classifying of rocks.
- Slides 3 to 4 explain what is a rock and introduce the names, or classification, of each rock group.
- Slides 5 to 6 introduce igneous rock and give examples.
- Slides 7 to 8 outline the properties of igneous rock and what it can be used for. There is opportunity for classroom discussion on its uses.
- Slides 9 to 10 introduce sedimentary rock and give examples.
- Slides 11 to 12 outline the properties of sedimentary rock and what it can be used for. There is opportunity for classroom discussion on its uses.
- Slides 13 to 14 introduce metamorphic rock and give examples of it.
- Slides 15 to 16 outline the properties of metamorphic rock and what it can be used for. There is opportunity for classroom discussion on its uses.
- Slides 17 and 18 introduce the Rock Cycle to show how and why rocks change over time, and that this change can result in sand and clay.
- Slide 19 explains that bricks are made from clay and sand.
- Slide 20 is a question to recap the names of the three types of rock.
- Slides 21-23 are activities that pupils can do, either in the classroom or in their own time.
- Slide 21 introduces the work sheet with three simple questions aimed at identifying a key property of each group.
- Slide 22 asks the pupils to go out to find and examine first of all a gravestone, and then a statue. It asks them to use a magnifying glass and make notes. This could be done as a class, or set as homework for pupils to bring in their notes to class for discussion.
- Slide 23 asks the pupils to examine rock samples in the classroom. It asks them to start classifying the samples in their groups depending on their properties.
- Slide 24 asks the pupils to present their findings, to put the rocks into groups and identify them. It asks the pupils to draw and label the rocks in their groups and to describe the properties of each group.
- Slide 25 congratulates the pupils on a job well done.
- You may wish to create a final slide, based upon the follow-up activity you have chosen as most appropriate for your class.



Worksheet

Classification of Rocks

1. Think of the properties of **igneous** rock.
Is it **hard** or **soft**?

2. Think of the properties of **sedimentary** rock.
Is it **hard** or **soft**?

3. Think of the properties of **metamorphic** rock.
Is it **hard** or **soft**?



Rocks: Keywords Flashcards



Igneous

Sedimentary

Metamorphic

Marble

Granite

Sandstone

Slate

Crystals

Grains



Igneous



Sedimentary



Metamorphic



Marble



Granite



Sandstone



Slate



Crystals



Grains

