

Rocks

Objectives

- Know how rocks are made;
- Know the names of the 3 types of rock;
- Give examples of each type.

There are 3 types of rock:



1) Sedimentary

formed in water from layers



2) Igneous

formed by fire in the earth



3) Metamorphic

rocks altered by heat and pressure

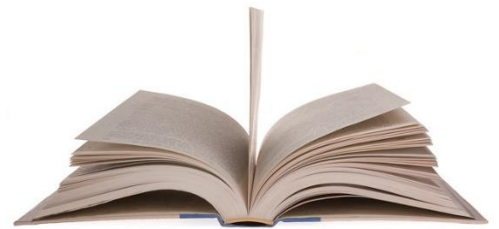
Sedimentary rocks

[sed-i-MEN-tree]

Look at the pages of a book - each page is a layer.

In a river the water lays down sand and grit in layers.

The water is squeezed out and the sand becomes a rock after a long time.



Here are some sedimentary rocks:



sandstone



limestone



chalk



gritstone



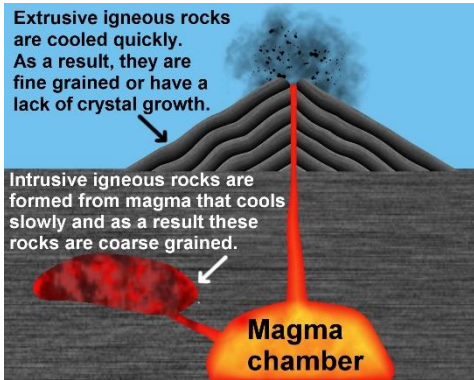
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Igneous rocks

[IG-nee-us]

Igneous rocks are formed by fire.



This is a volcano. It makes igneous rocks like these:



lava



granite



basalt (black colour)

It is very hot inside the volcano. The rock is molten (melted).

Metamorphic rocks

[met-a-MOR-fik]

"meta" means change.

Metamorphic rocks have been changed by heat and pressure.

Marble is a metamorphic rock (used in a fireplace or a statue).

Marble is often white, is very hard and feels cold to touch with your hands.

Slate used on a house roof is a metamorphic rock.



marble



slate



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Quiz

1) Write the names of the 3 types of rock.

S _____

I _____

M _____

formed when
molten rock
cools

changed by
heat and
pressure

made in
water
from
layers

2) Match the names above with these descriptions.

3) Give an example of

a **sedimentary** rock

an **igneous** rock

a **metamorphic** rock

4) Can you spell these 3 new long words? (Try not to look!)

s _ _ _ _ _

i _ _ _ _

m _ _ _ _ _

5) Draw a picture diagram of a volcano and use some of these words.

| Key words | | | | | |
|----------------|---------------|------------------|-----------------------------|-------------|--------------|
| <i>igneous</i> | <i>molten</i> | <i>sediments</i> | <i>metamorphic (change)</i> | | |
| <i>lava</i> | <i>magma</i> | <i>layers</i> | <i>pressure</i> | <i>heat</i> | <i>cools</i> |

