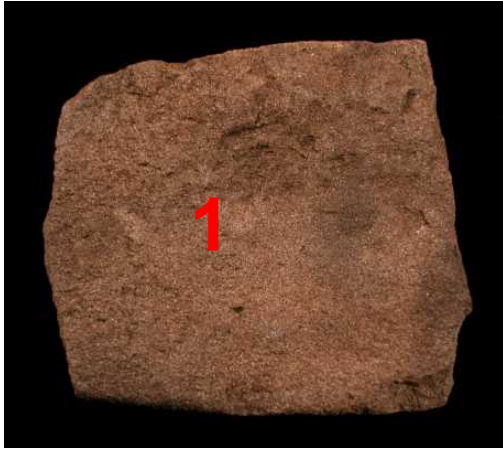


# Metamorphic Rocks



Form Group 8Y  
18th April 2007

# Sedimentary Rocks...?

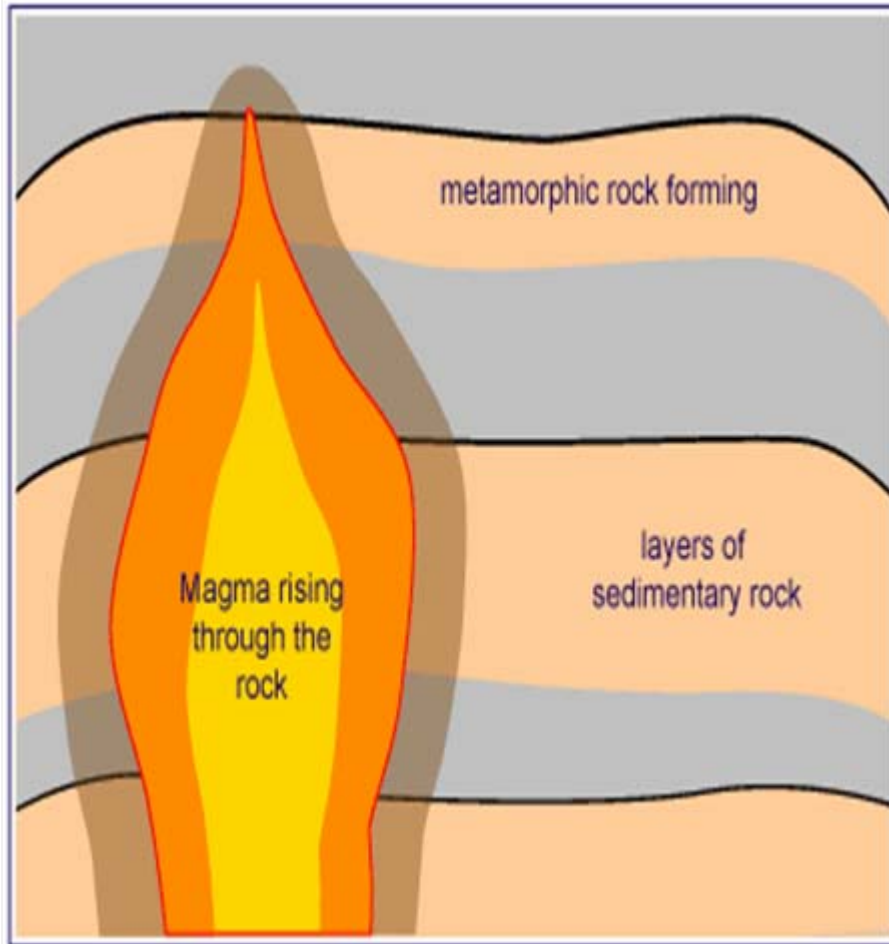


- 1 – sandstone
- 2 – conglomerate
- 3 – limestone
- 4 – chalk

# Sedimentary Rocks

- 1** - Different sediments contain fragments of different sizes.
- 2** - Layers of sediment form sedimentary rock when they are compacted(squeezed), and cemented (glued) together.
- 3** - Sedimentary rocks have grainy texture, may be porous and may contain fossils.
- 4** - Sandstone, limestone, chalk, shale and conglomerate are all examples of sedimentary rocks.

# Metamorphic Rocks...



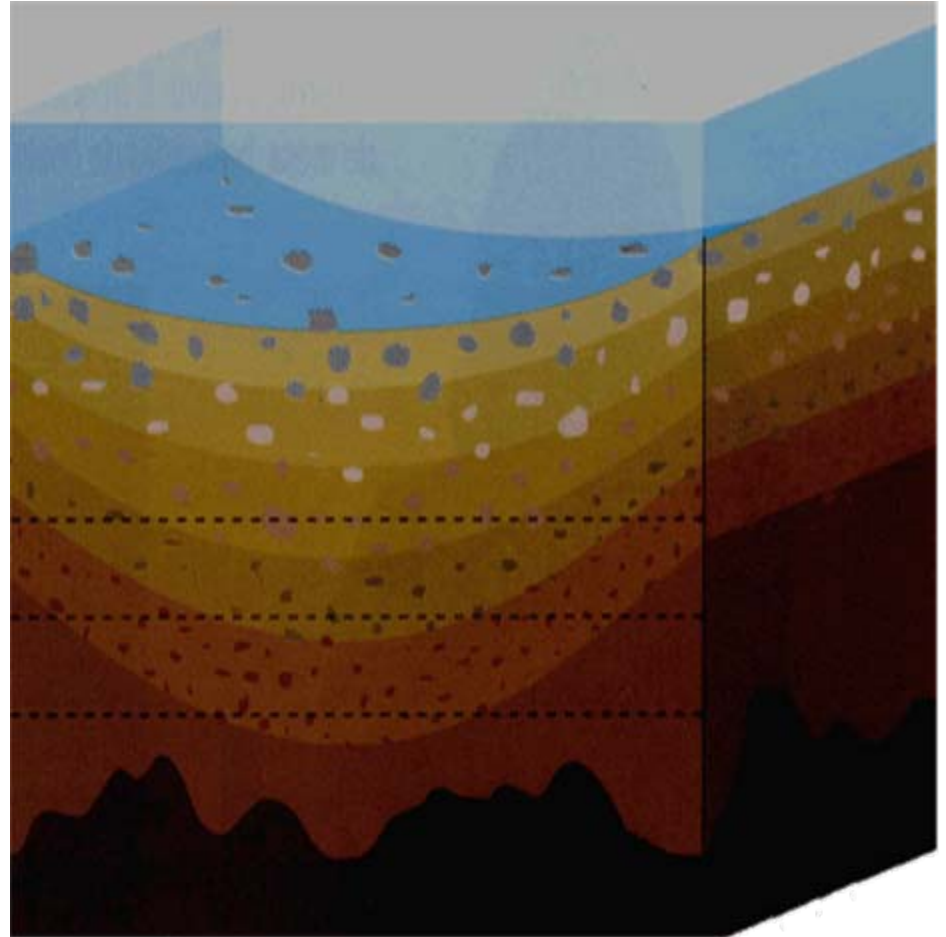
- 1 – Metamorphic rocks are made from other types of rocks.
- 2 – When the minerals inside rocks are heated and squashed they can change into different ones.

# Metamorphic Rocks...

1 - The grains of sedimentary rocks are usually deposited in layers called beds.

2 – When the rock is heated and compressed new layers start to form. These are often in a different direction.

3 – Sometimes the heat and pressure causes new minerals to form, so new type of rocks called metamorphic rocks.





**Sedimentary Rocks**



**Metamorphic Rocks**

High temperature  
and high pressure

# Sedimentary Rocks → Metamorphic rocks



**limestone**



**marble**



**sandstone**



**quartzite**



**shale**



**slate**

# Metamorphic Rocks Landscape...





# Metamorphic Rocks

- 1 – \_\_\_\_\_ rocks are made from other types of rocks. *(1 mark)*
- 2 – Metamorphic rocks can be formed by sedimentary rocks and also formed around \_\_\_\_\_ (molten rock). *(1 mark)*
- 3 – These changes happen because of the \_\_\_\_\_ pressure caused by earth movements and high temperature inside the Earth. *(1 mark)*
- 4 – \_\_\_\_\_ is an example of a metamorphic rock formed by a \_\_\_\_\_ rock called \_\_\_\_\_. *(2 marks)*

metamorphic	magma	marble	Igneous	low	limestone	high
-------------	-------	--------	---------	-----	-----------	------

# Metamorphic Rocks

- 1 – **Metamorphic** rocks are made from other types of rocks.
- 2 – Metamorphic rocks can be formed by sedimentary rocks and also formed around **magma** (molten rock).
- 3 – These changes happen because of the **high** pressure caused by earth movements and high temperature inside the Earth.
- 4 – **Marble** is an example of a metamorphic rock formed by a **sedimentary rock** called **limestone**.

metamorphic	magma	marble	Igneous	low	limestone	high
-------------	-------	--------	---------	-----	-----------	------