

# Metamorphic Rocks cont.

- Be able to name some metamorphic rocks
- Be able to describe how metamorphic rocks are formed?

Lesson 10

## Marble

LEARN THIS EXAMPLE



Marble is a non-foliated metamorphic rock that is produced from the metamorphism of limestone or dolostone. It is composed primarily of calcium carbonate.



Marble Warrior British Museum - Photographed by Mr Morton Spring 2014

## Gneiss

LEARN THIS EXAMPLE



Gneiss is foliated metamorphic rock that has a banded appearance and is made up of granular mineral grains. I

## Quartzite

LEARN THIS EXAMPLE



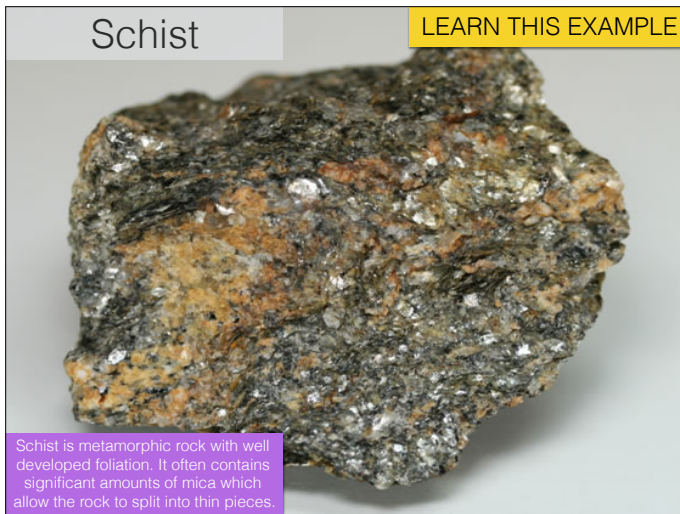
Quartzite is a non-foliated metamorphic rock that is produced by the metamorphism of sandstone

## Slate

LEARN THIS EXAMPLE



Slate is a foliated metamorphic rock that is formed through the metamorphism of shale. It is a low grade metamorphic rock that splits into thin pieces.



**Practical:** You will look at and record your observations for at least 4 metamorphic rocks.

**Colour:** Write down the main colours you can see in your metamorphic rock sample.

**Crystal size:** Estimate the average size of the crystals using a magnifying glass and a ruler.

**Porosity:** Add a few drops of water to the rock and then wipe away, does the rock absorb water?  
Yes/no

**Acid Test:** Add a few drops of acid to the rock and then wipe away, does the rock react? Bubbling and a white precipitate means it does.

Describing physical & chemical properties of sedimentary rocks

Rock Name	Colour	Crystals size	Porous?	Does it react with acid?
Limestone				
Sandstone				
Shale				
Coal				

Describing physical properties of metamorphic rocks

- Pupils look at rocks and they produce a table of properties - colour, crystal size, hardness maybe?, acid test?

