

Module F

Unit 1

Lesson 2

Exp 1

Comparing

Minerals and Rocks

Do Now:

Log on to the Ebook, Go to Mod F Unit 1 and click the Lesson 2 tab
and
Complete the Lesson Opener
And
the Evidence notebook activity



Do Now:

Do First Ebook activity in
Lesson 1 Exploration 1



Minerals

- Are naturally-occurring and usually inorganic solid. It has a definite chemical composition and an orderly internal structure.
- The conditions under which the mineral form
 - When magma or lava cools.
 - When temperature and pressure within Earth cause minerals to change
 - When substances that are dissolved in water as the water evaporates minerals form
- Minerals are made up of crystals.

Crystals

- A crystal is a solid with its atoms or molecules arranged in a repeating pattern
- The way the crystal forms determines its size.
- Some crystals are very large, and some can only be seen with a microscope.





**MEXICO'S
GIANT
CRYSTAL
CAVE**

Sci Show

Rocks

A **rock** is a solid
made up of minerals



**Where do
rocks come
from???**

**From other
rocks**

Rock Cycle

- Natural processes change one type of rock into another type of rock.
- Weathering can break down rocks into smaller particles called sediment
- Rocks can also form when existing rock experiences an increase in temperature or pressure.
 - If the pressure and temperature are high enough, the minerals in a rock can change into new minerals.
 - The changing of the minerals forms a new type of rock.
- Rock may get hot enough to melt and form magma.
 - Magma can eventually cool and solidify to form new rock.

SEDIMENTARY
ROCK



Sediment

COMPACTING
&
CEMENTATION

WEATHER &
EROSION



Rock Cycle

compaction cementation



Heat and pressure



one way process



Melting



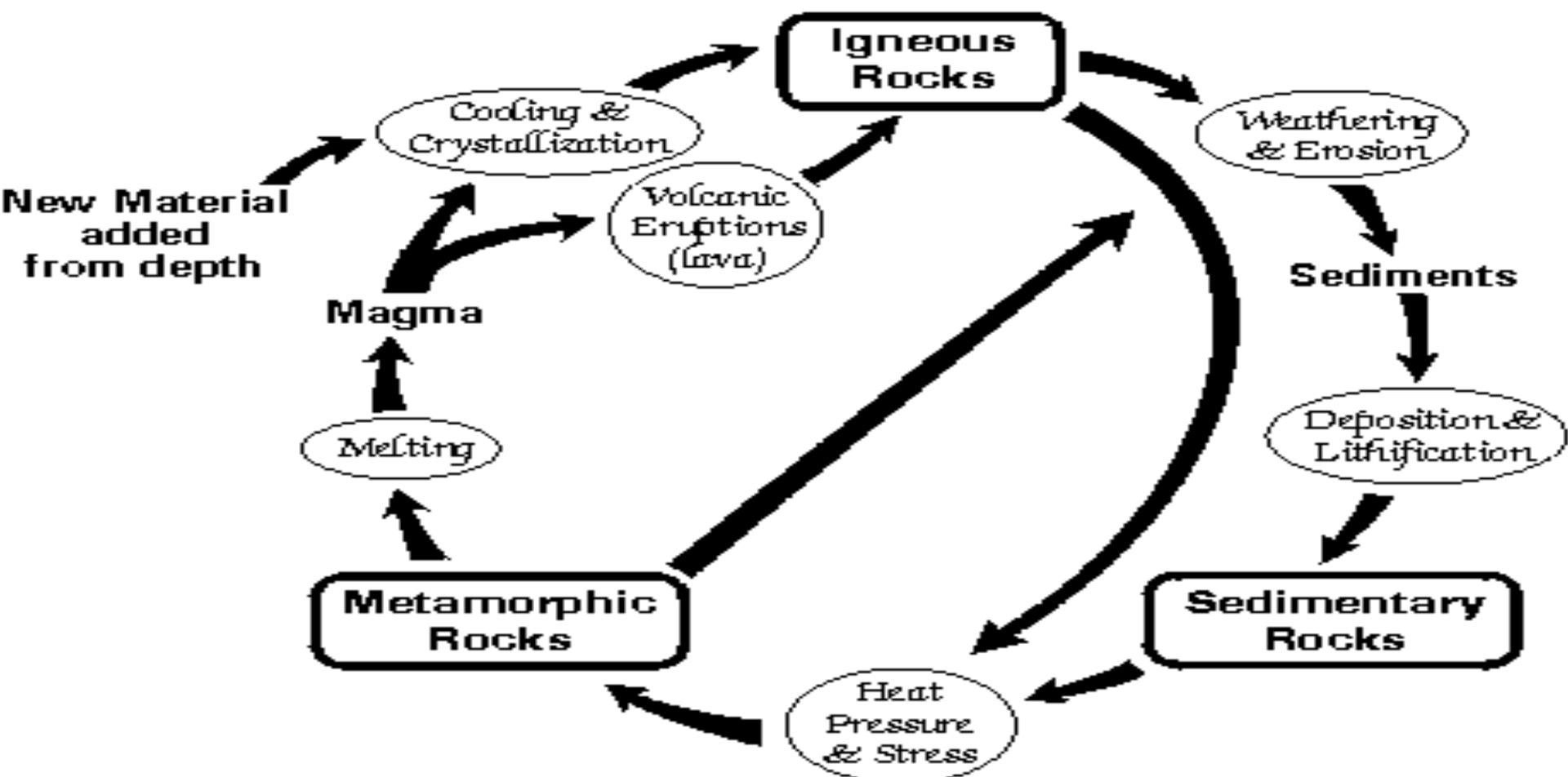
Cooling







The Rock Cycle



Do Now- create a Diagram of the rock cycle



1. list how each rock forms
2. list how each rock changes to the next type
3. make sure your arrows show what is occurring (ex: heat/pressure/erosion) accurately
4. provide two examples of each type of rock in their appropriate location on the rock cycle
5. Creativity points (not real pts) if you can find a way to show the processes in a creative manner



Do Now:

Finish the Ebook activities in Lesson 1
Exploration 1

Don't forget the evidence notebook activity