



We know that rocks can be formed from different processes
but can rocks change from one type to another type?



Metamorphic rock



Sediment



Magma and lava



Sedimentary rock



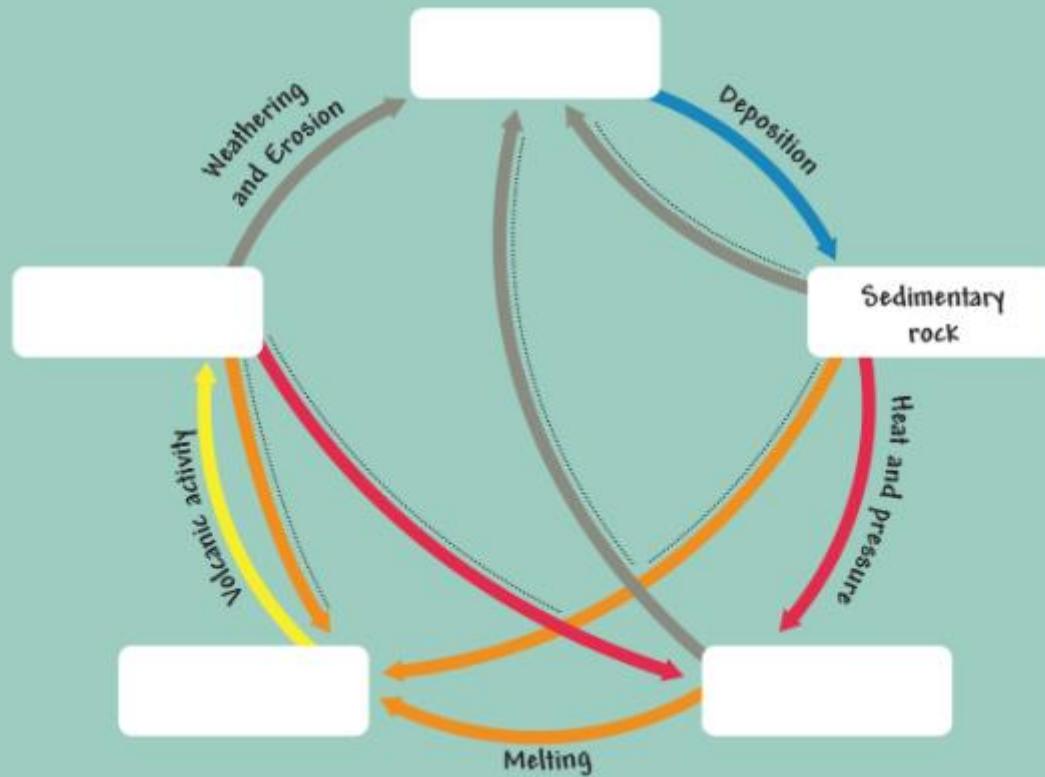
Igneous rock

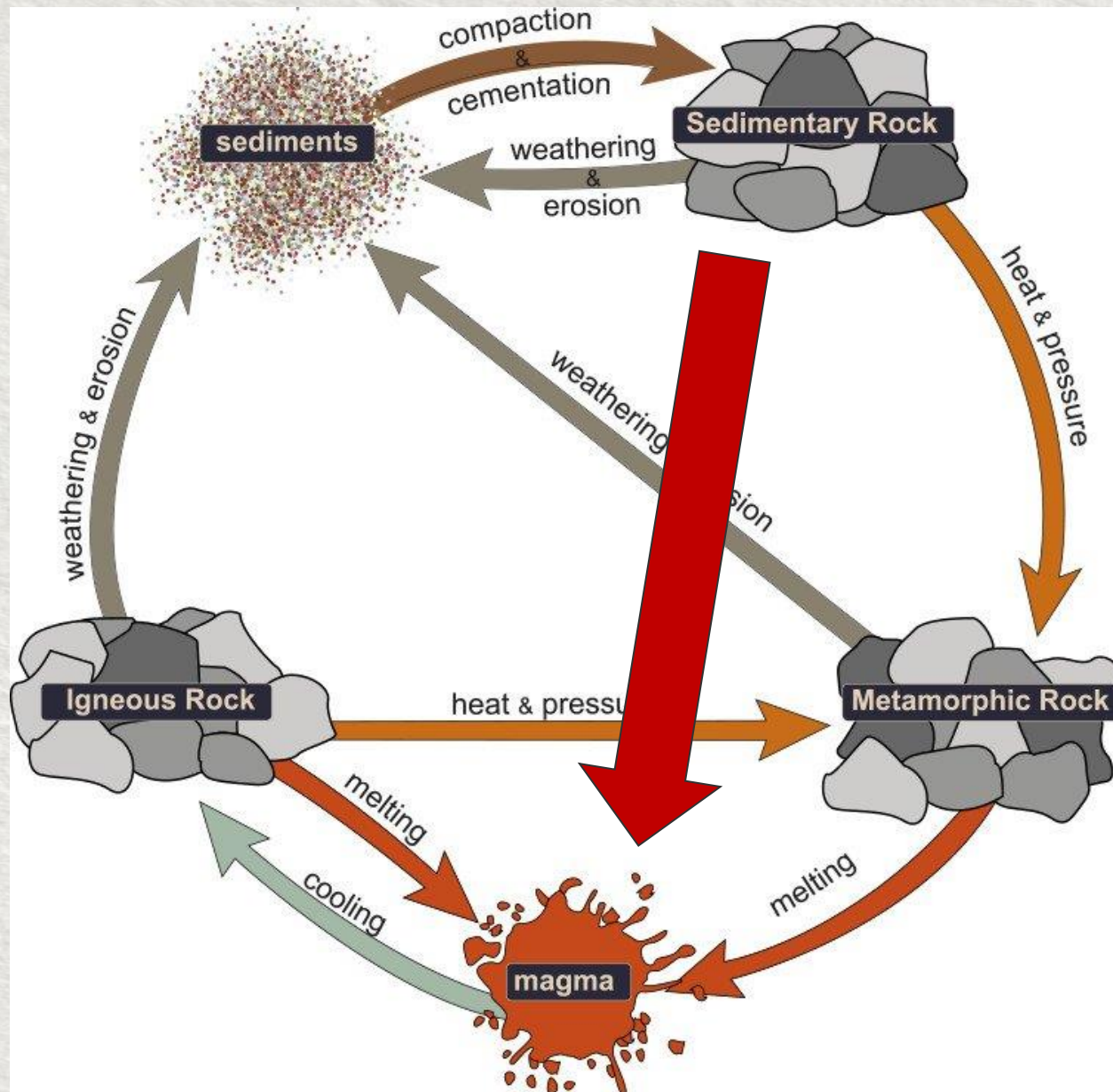
Sediment

Igneous Rock

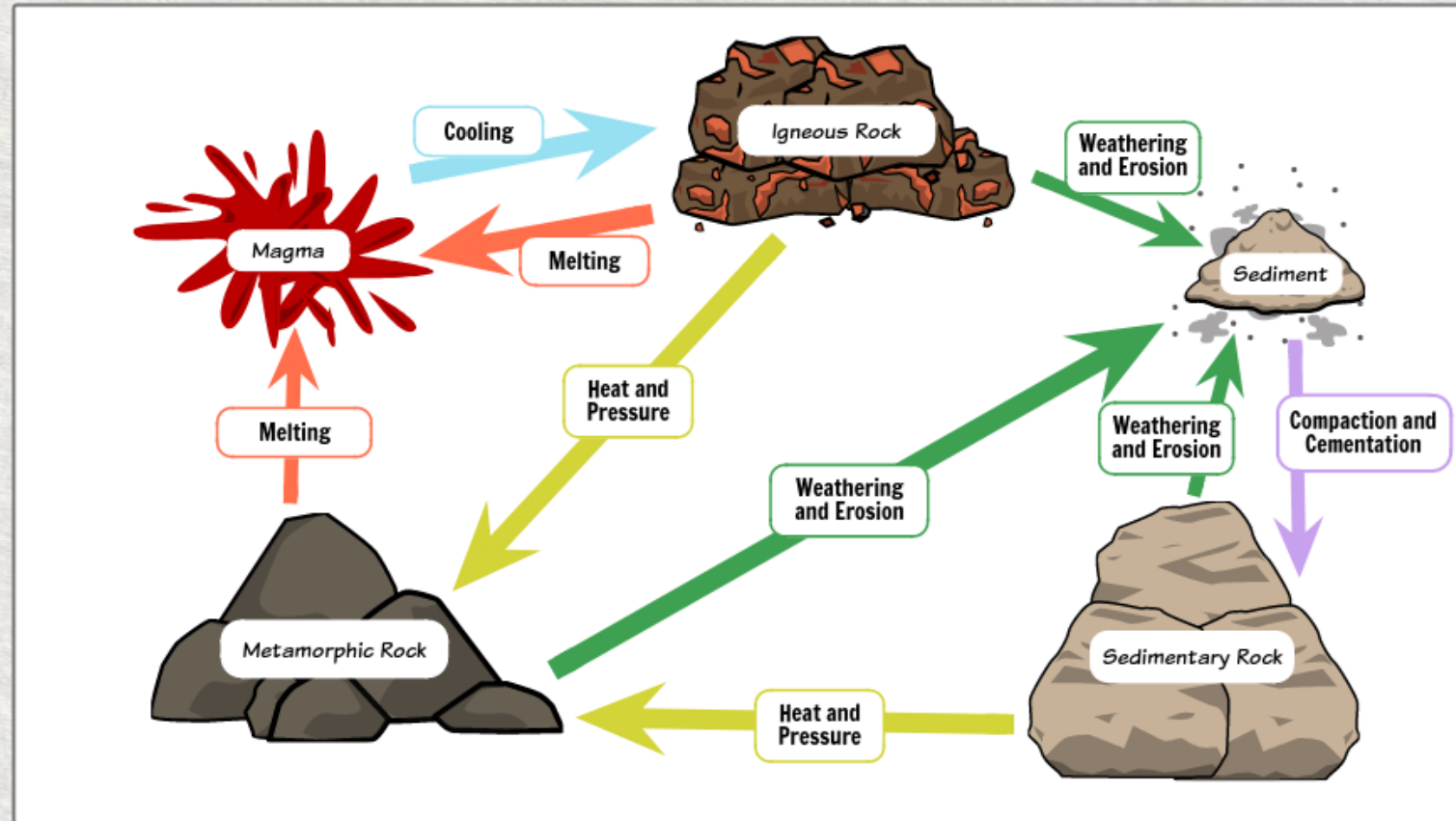
Magma and Lava

Metamorphic Rock

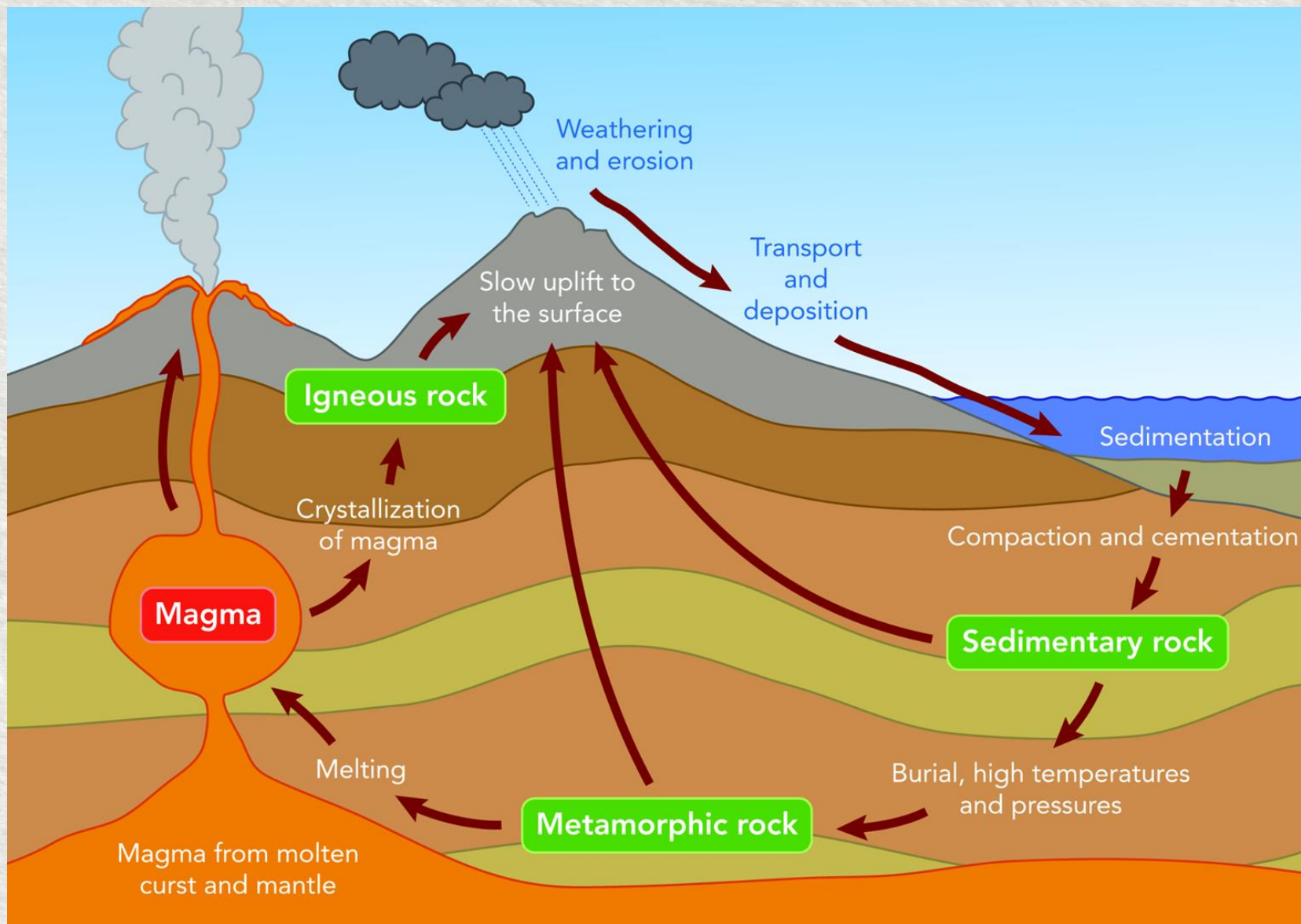




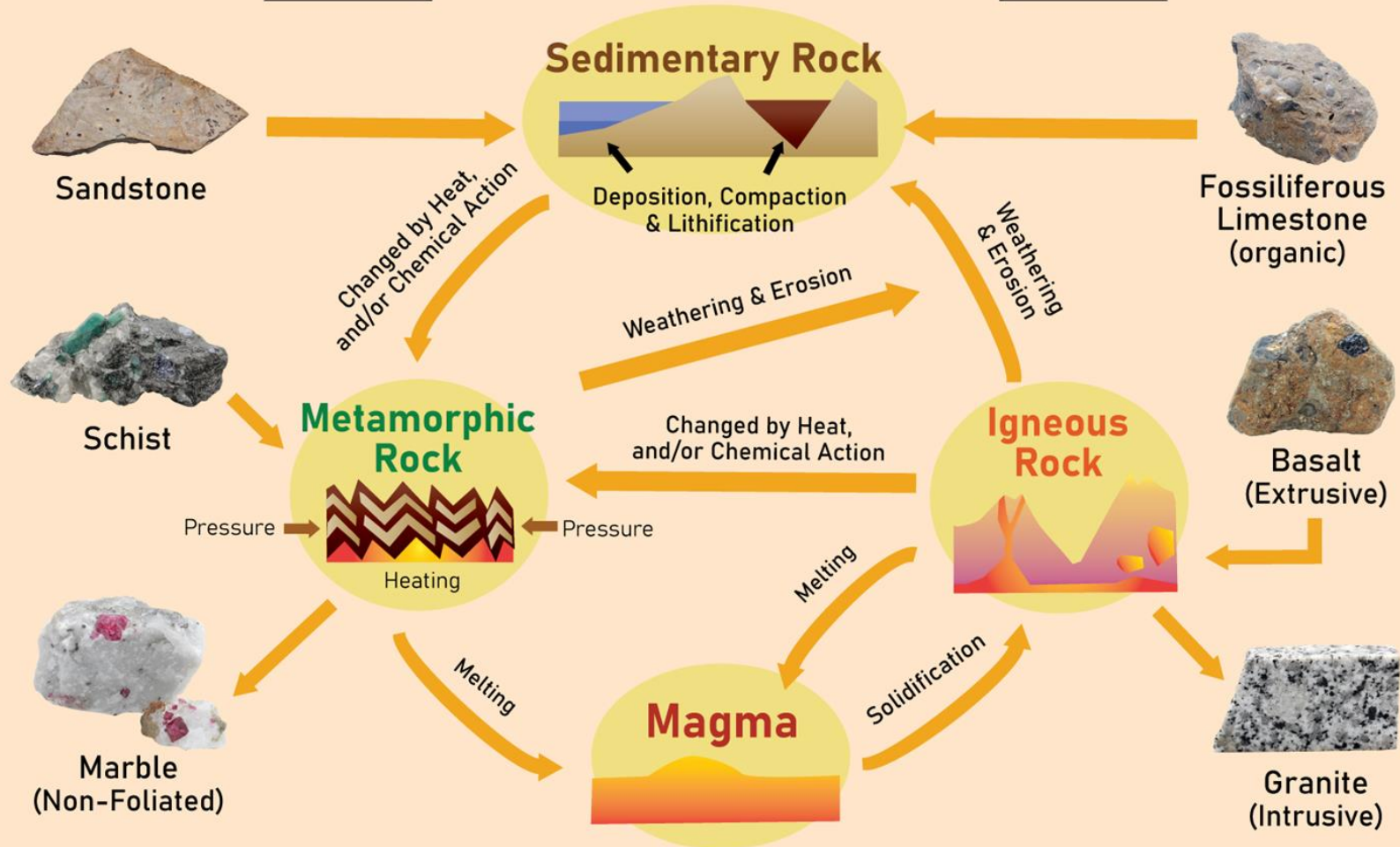
The Rock Cycle



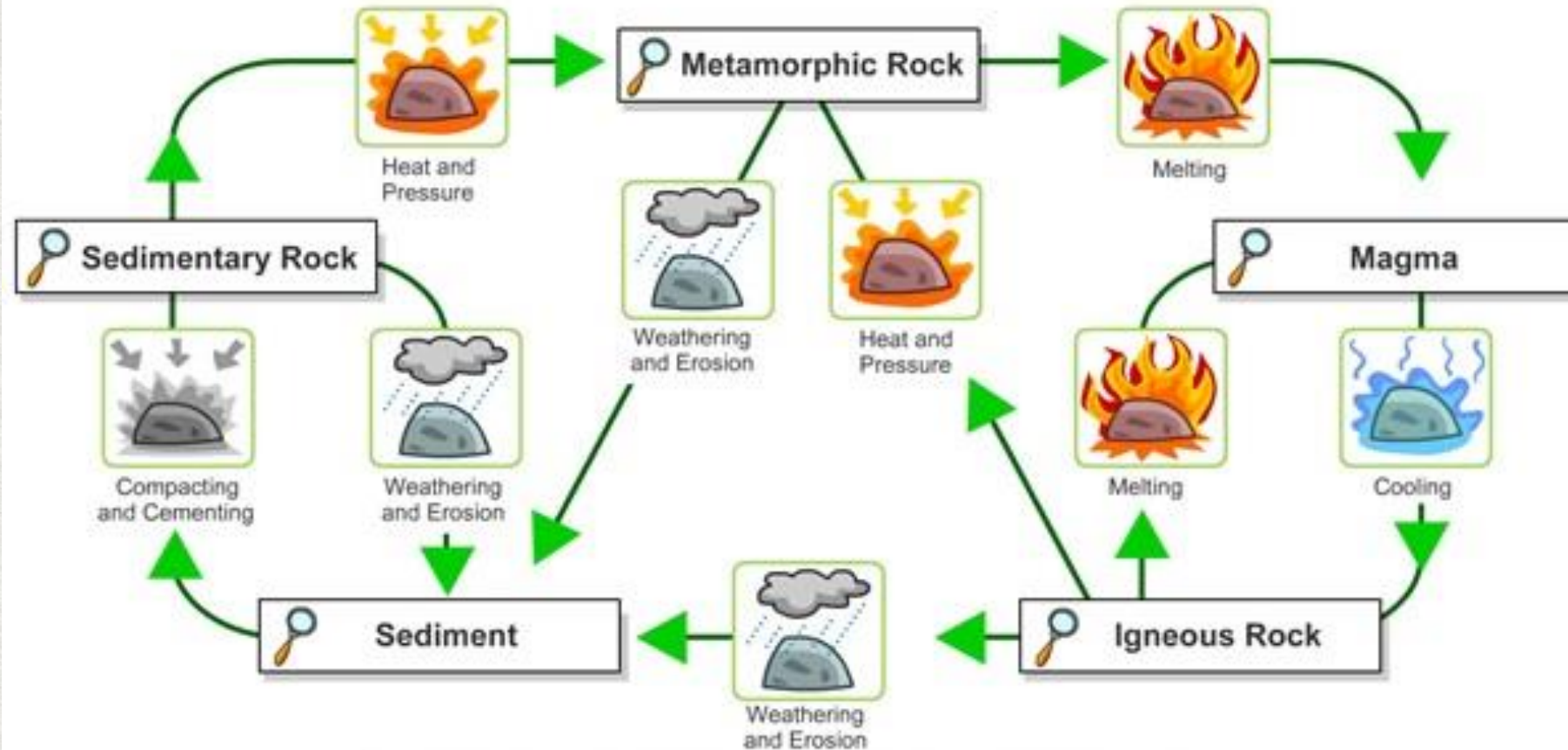
Create your own at Storyboard That



THE ROCK CYCLE



The Rock Cycle





EXPLORE MORE!

Formation of three types of rocks [here](#)

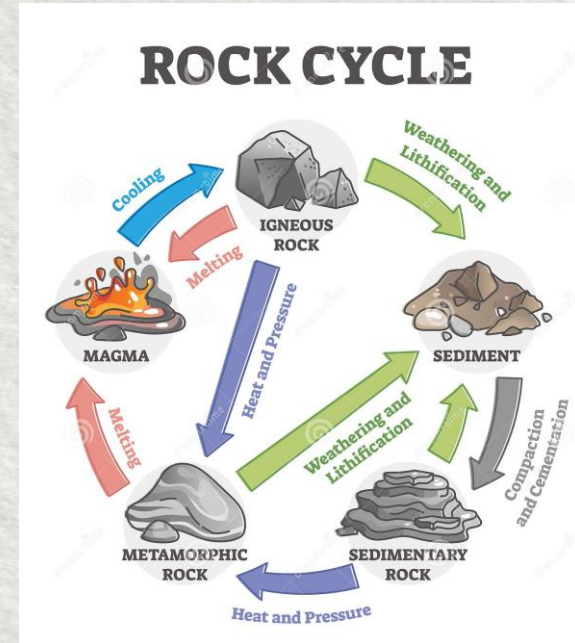
Description of the rock cycle [here](#)

Video with information and game [here](#)

True or False:

The rock cycle is a simple circle that only goes in one direction.

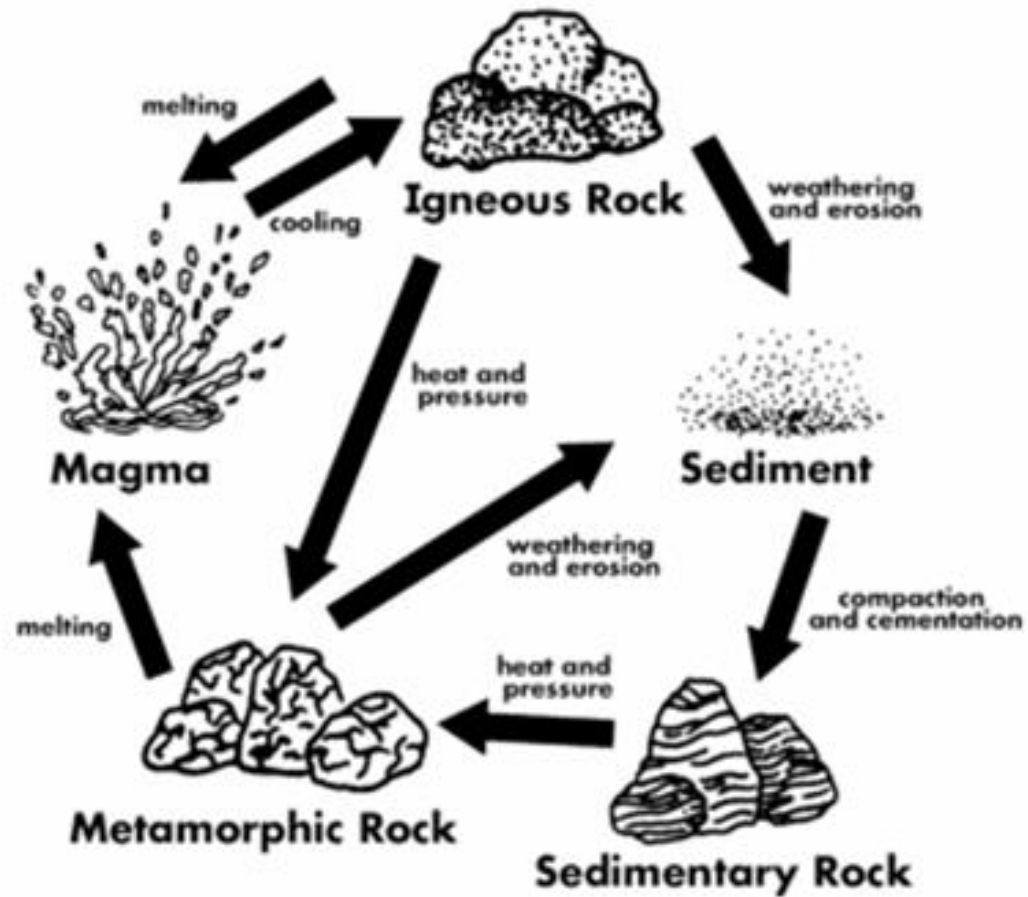
FALSE!!!






You are going to need your gummy bears for tomorrow's class.

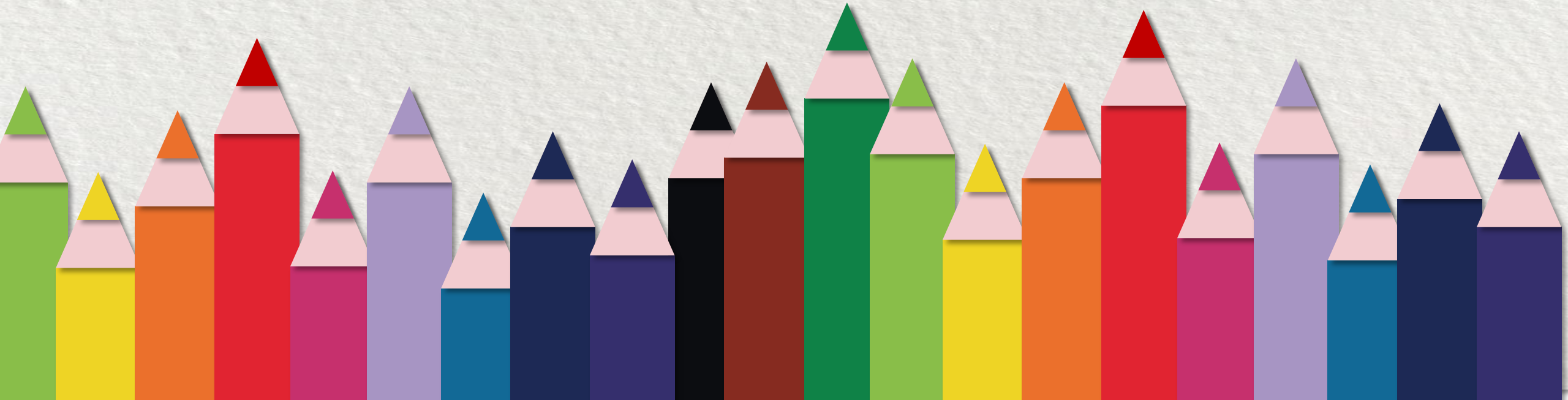
The Rock Cycle





How is the rock cycle
like the water cycle?

BrainPOP video - Rock Cycle





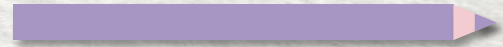
HOW CAN EACH BECOME EACH?



Magma



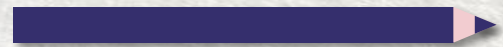
Sediment



Igneous Rock



Metamorphic Rock



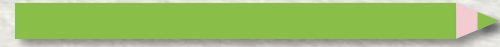
Sedimentary Rock



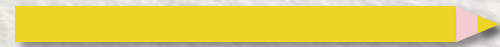
Magma



Sediment



Igneous Rock



Metamorphic Rock



Sedimentary Rock



ACTIVITY

Let's do some rock cycling!

- Go grab your gummy bears!
 - Don't have any? Use any gummy thing!
 - Don't have any gummy candy? Use paper!
- You will also need scissors, wax paper, a plate, and a book



SEDIMENTARY ROCK

Source

Weathering

1. Cut the three colors of gummy bears into as many small pieces as you can
2. Put the pieces into a pile and observe what you see

Compaction

3. Pick up the "sediments" and gently push them together so they all form into one piece

Cementation

4. Take your "sedimentary rock" and warm it in your hands for a while
5. Place the wax paper on top and press hard on top of the warm "sedimentary rock"
6. Set the piece down and observe what you see



METAMORPHIC ROCK

Source

7. Warm the “rock” in your hands again, create friction heat by rubbing quickly between hands
8. Fold this “rock” in half, place the wax paper on top, and press down on it applying greater pressure with a book on top
9. Observe what you see



IGNEOUS ROCK

Source

10. Place your “metamorphic rock” on the plate
11. Put the plate in the microwave for 10 seconds
12. Take out the “rock” and observe what happened
13. Put the “rock” back in the microwave for 10 more seconds
14. Take out the “magma” and observe what happened
15. Leave it there for a bit and then make some more observations and come
back to the main room afterwards prepared to discuss what you saw



HOW WAS THIS MODEL ACCURATE?

HOW WAS THIS MODEL NOT ACCURATE?



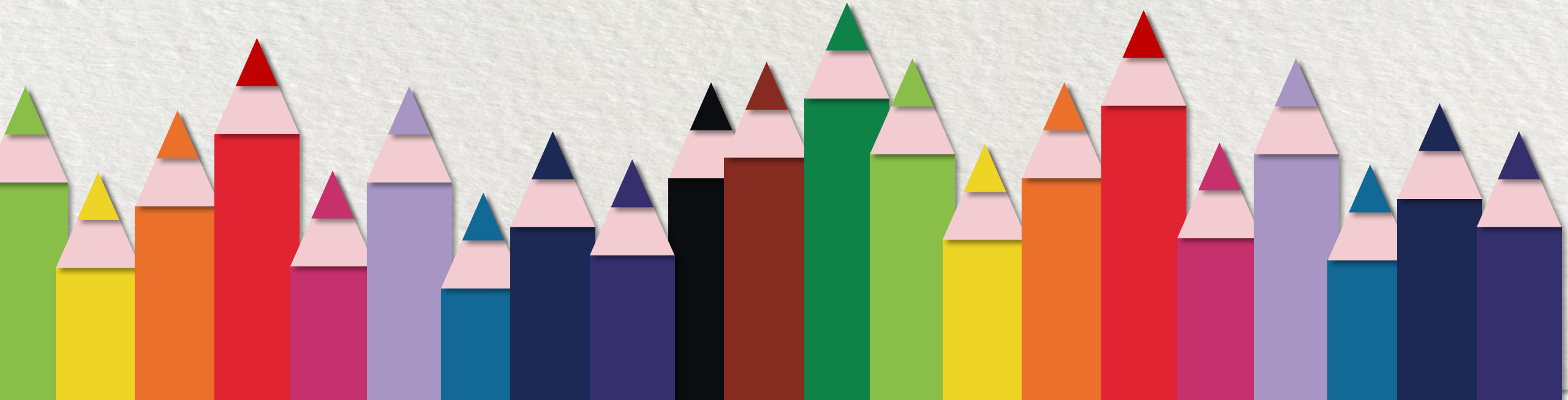


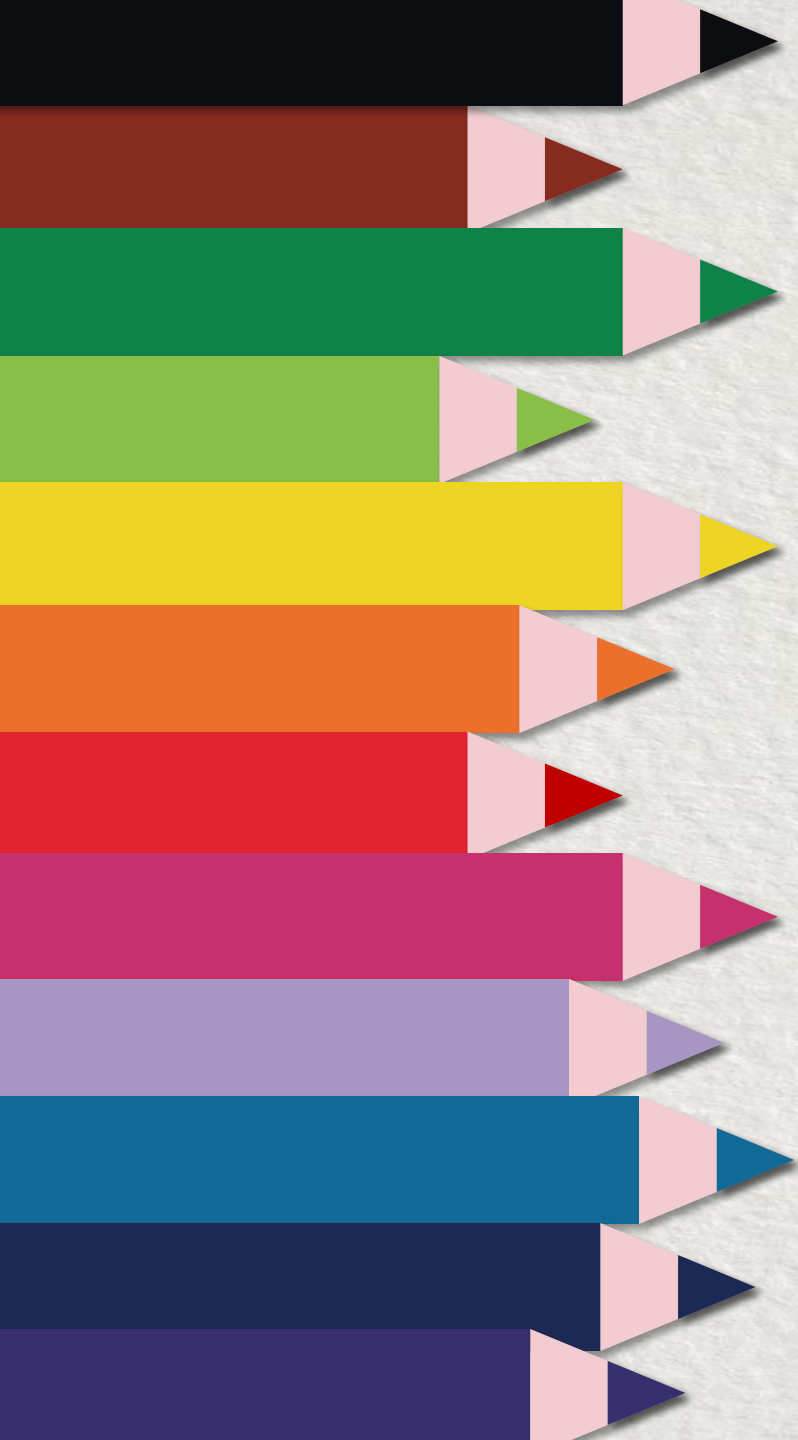
EXPLORE MORE!

Interactive [here](#)

Study some rock samples [here](#)

Learn about each part of the cycle [here](#)





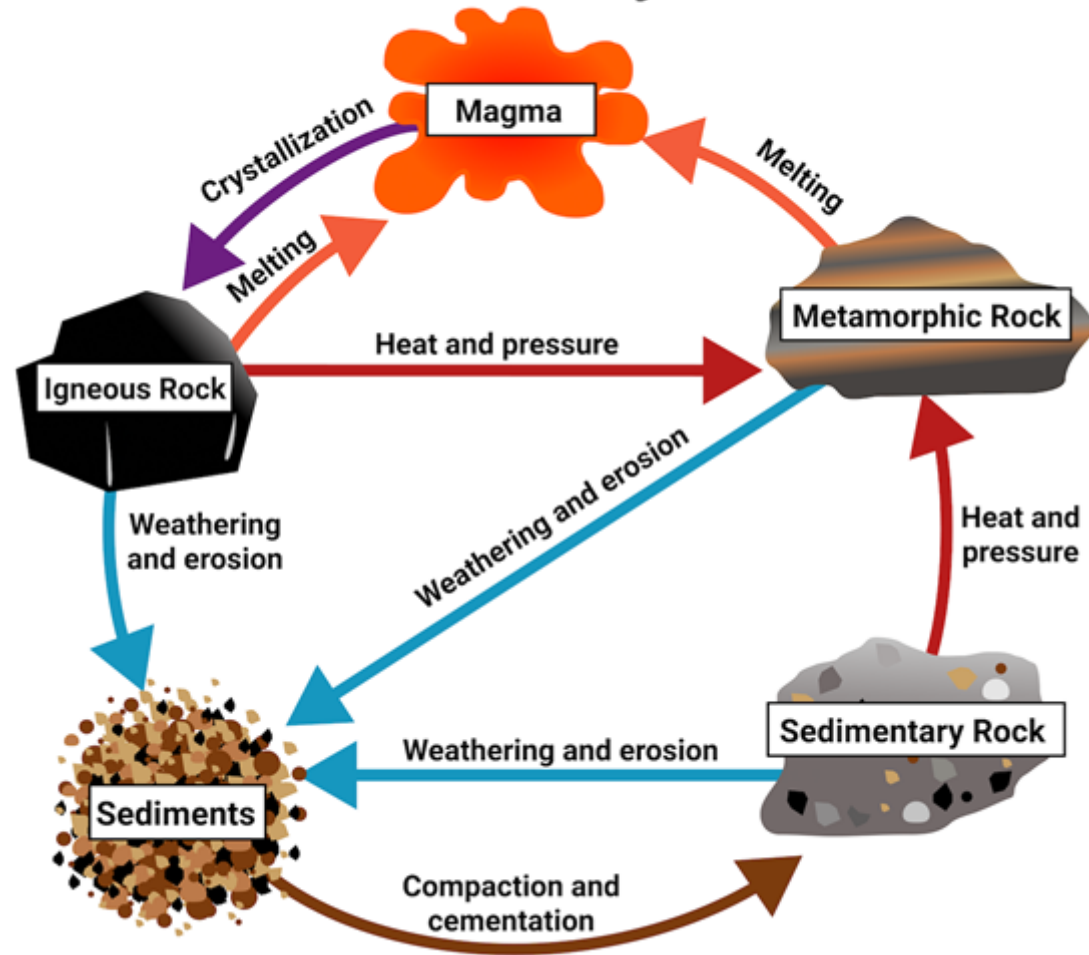
WEATHERING

EROSION

HEAT

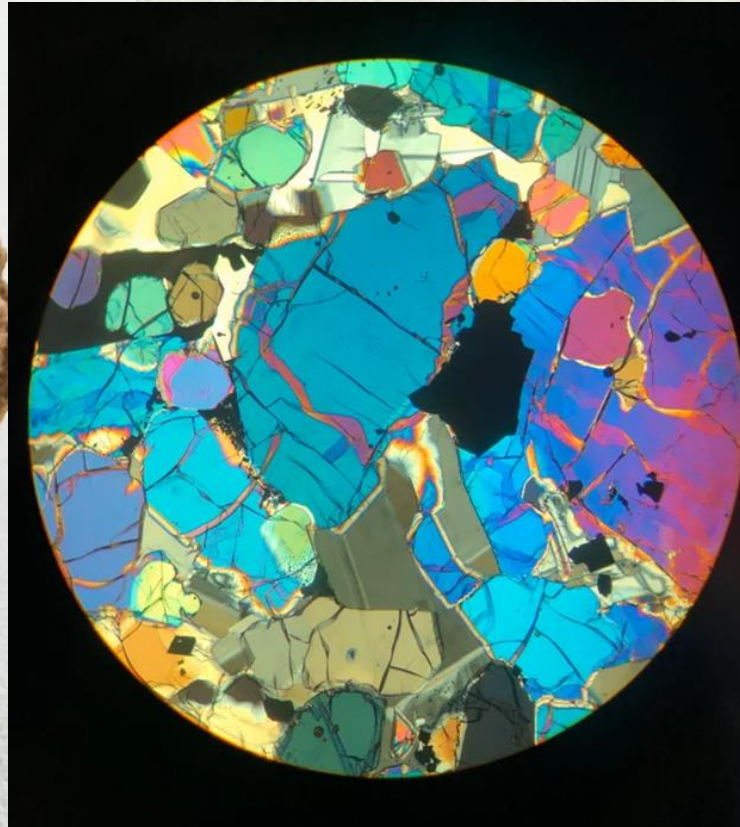
PRESSURE

The Rock Cycle





Birate Rose (official state rock of Oklahoma)



Lunar Basalt



Foliated Sandstone in Australia



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**WHAT ARE ROCKS
AND HOW DO THEY FORM?**