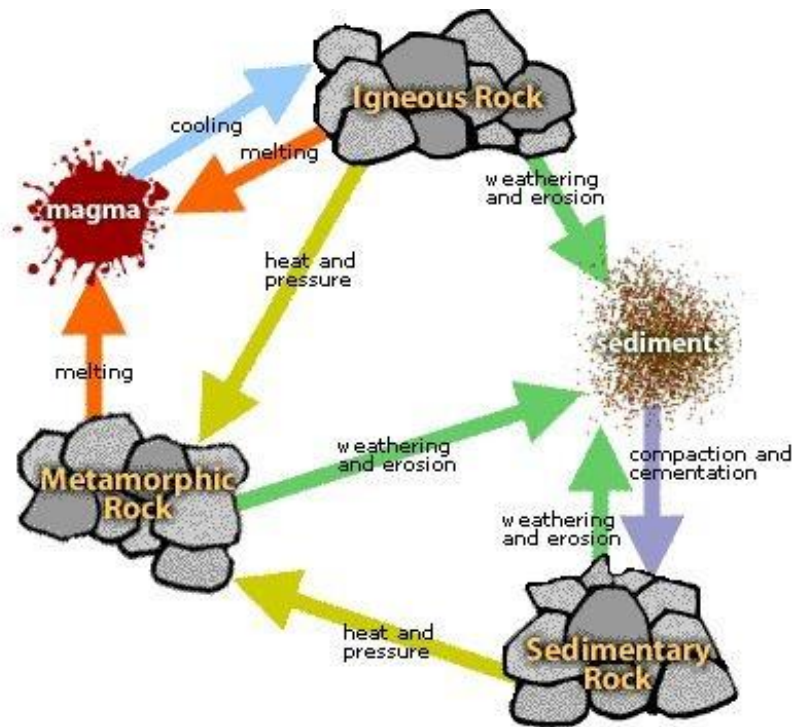


Materials

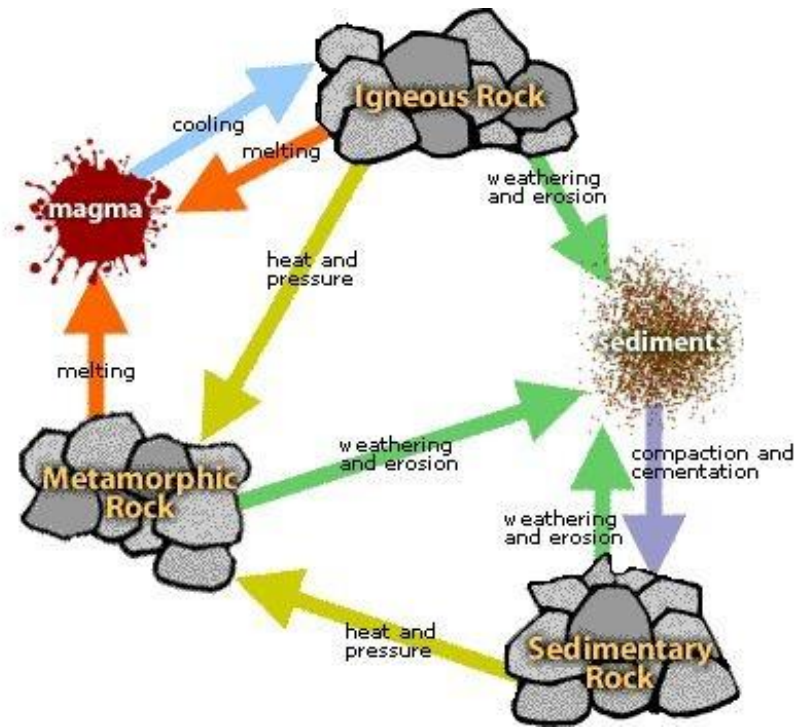
- Several sets of dice
 - Rock Cycle Station Posters:
 - Rock Cycle Station: Igneous Rock
 - Rock Cycle Station: Sediment
 - Rock Cycle Station: Sedimentary Rock
 - Rock Cycle Station: Metamorphic Rock
 - Rock Cycle Station: Magma
 - Rock Cycle Game Worksheet
1. Set up the 5 stations around the classroom with several sets of die at each station, These stations are Igneous Rock, Sediment, Sedimentary Rock, Metamorphic Rock, and Magma. Post the Rock Cycle Station posters at each station, which include the die chart and the Rock Cycle.
 2. Divide the students up, placing them equally at the Igneous, Metamorphic and Sedimentary Rock stations. Hand out copies of the Rock Cycle Game Worksheet to each student. .
 3. At the student's first station, get them to write their first rock under *Current Rock Type* on their worksheet. Students will roll the die and move or stay from their station to a new station depending on the condition (ex. Cooling, erosion, heat etc). For example, if a student is an Igneous Rock, and it experiences high heat (melting), they will have to move to the Magma station and roll again. Students need to record their current rock type at each station.
 4. After several rounds, gather students together so they can compare their rock cycle journey with their friends.
 5. End with a discussion regarding the different transformation they went through.

Rock Cycle Station: Igneous Rock



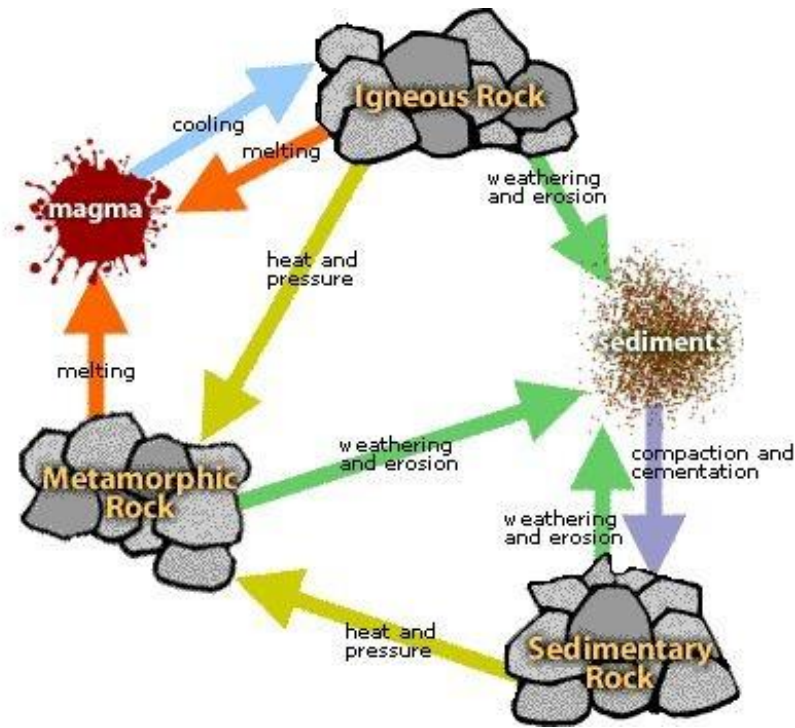
Number on Die	Effect on Rock
1	Hurricane (Weathering)
2	Buried Underground (Heat and Pressure)
3	High Heat (Melting)
4	Ocean Waves (Erosion)
5	Winter (Cooling)
6	Sunny Day (No Change)

Rock Cycle Station: Sediment



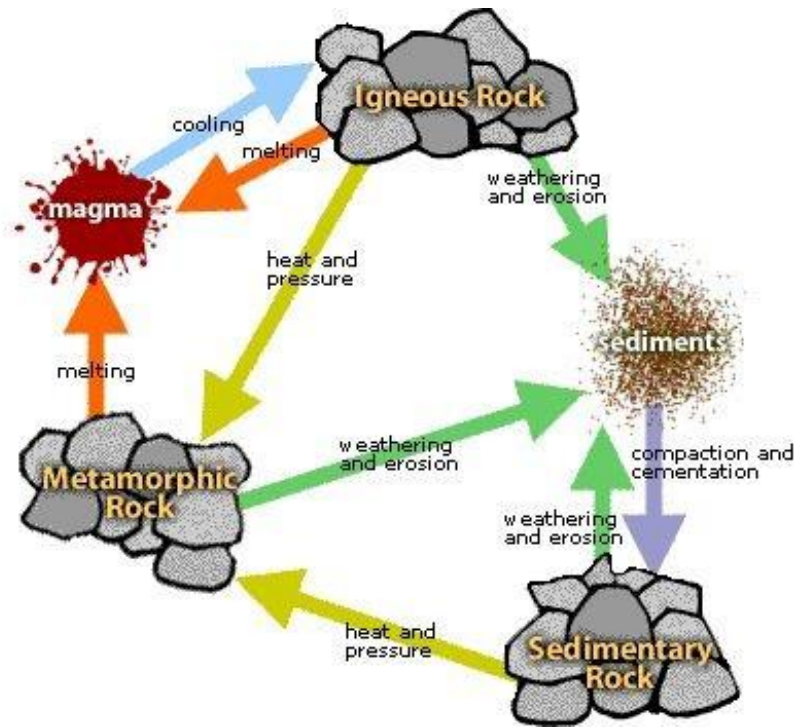
Number on Die	Effect on Rock
1	Wind (Erosion)
2	Buried Underground (Heat and Pressure)
3	Compaction and Cementation
4	Ocean Waves (Erosion)
5	Compaction and Cementation
6	Hurricane (Weathering)

Rock Cycle Station: Sedimentary Rock



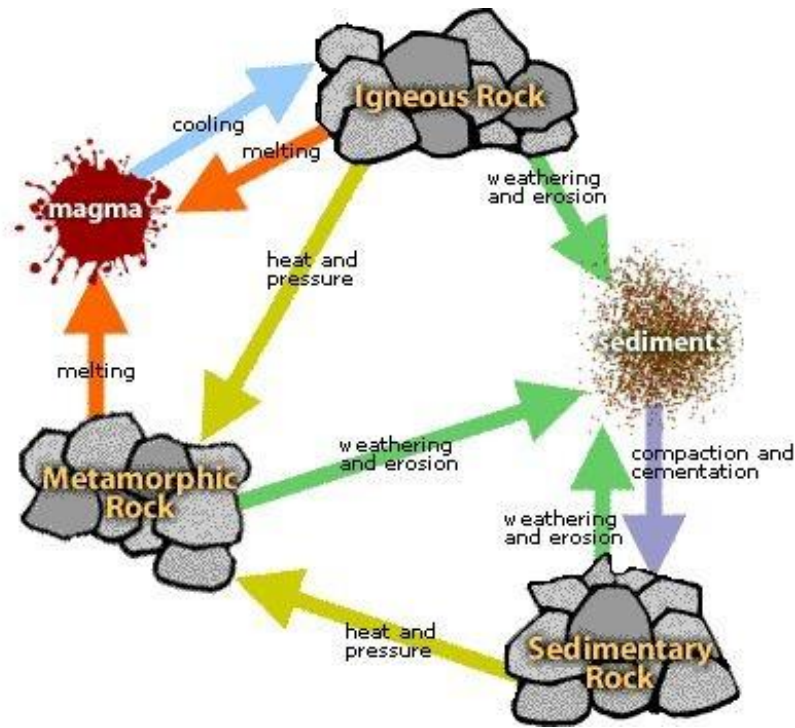
Number on Die	Effect on Rock
1	Heat and Pressure
2	Wind (Erosion)
3	Heat and Pressure
4	Hurricane (Weathering)
5	Ocean Waves (Erosion)
6	Heat and Pressure

Rock Cycle Station: Metamorphic Rock



Number on Die	Effect on Rock
1	Ocean Waves (Erosion)
2	High Heat (Melting)
3	Hurricane (Weathering)
4	High Heat (Melting)
5	High Heat (Melting)
6	Wind (Erosion)

Rock Cycle Station: Magma



Number on Die	Effect on Rock
1	Ice (Cooling)
2	Heat and Pressure
3	Ocean (Cooling)
4	Wind (Erosion)
5	High Heat (Melting)
6	Hurricane (Weathering)

Ride the Rock Cycle Worksheet

1. What are the three types of rocks?

2. Using the chart below, describe your journey through the rock cycle.

Current Rock Type	Number Rolled on Die	Effect on Rock	New Rock Type

Ride the Rock Cycle adapted from [NASA](#)