

Weathering and Erosion



What is a ROCK?



- A rock is made up of minerals that have combined together.
- Rocks can contain one mineral or be made up of many different minerals.

Three Types of Rocks



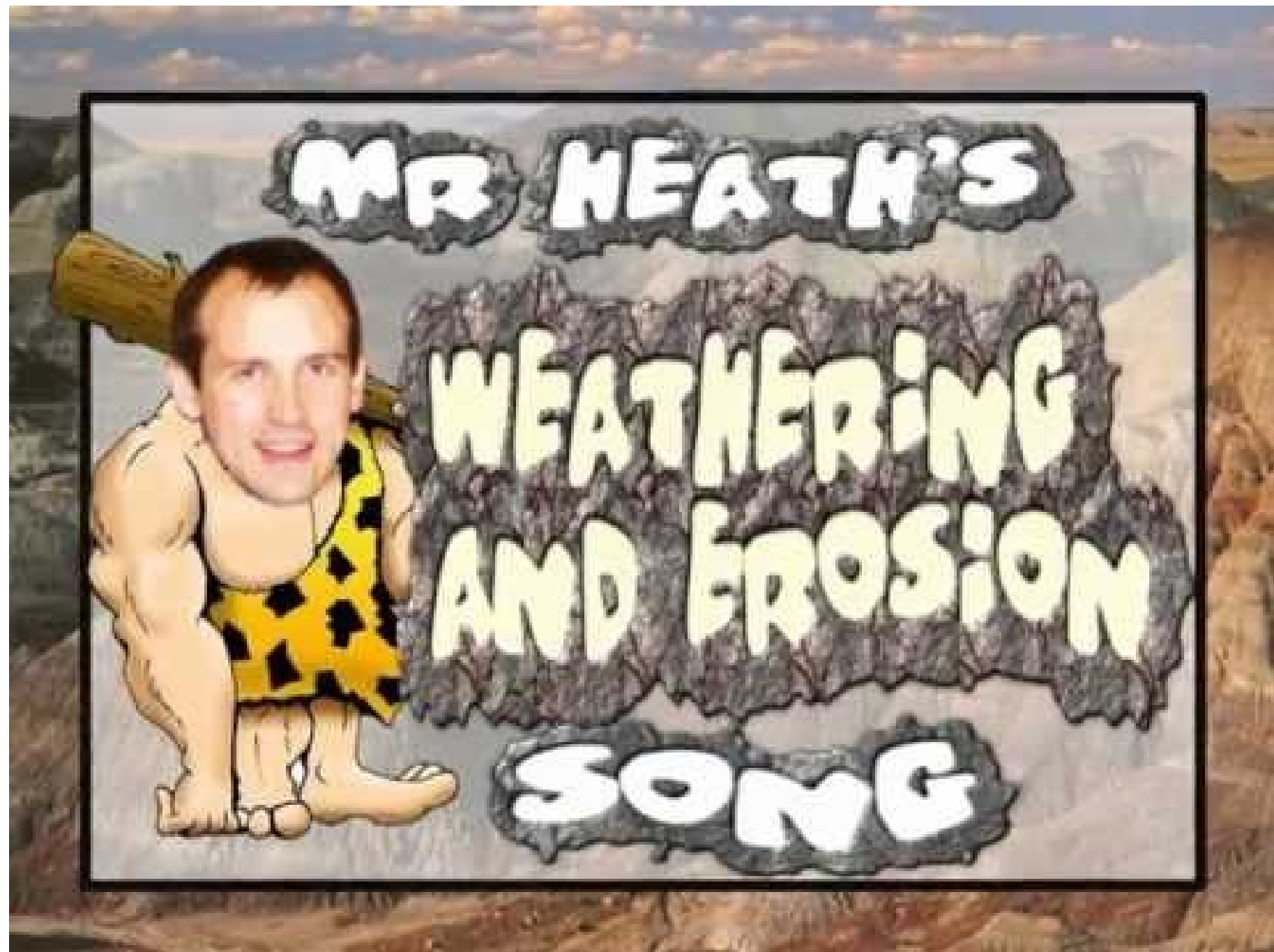
- Igneous

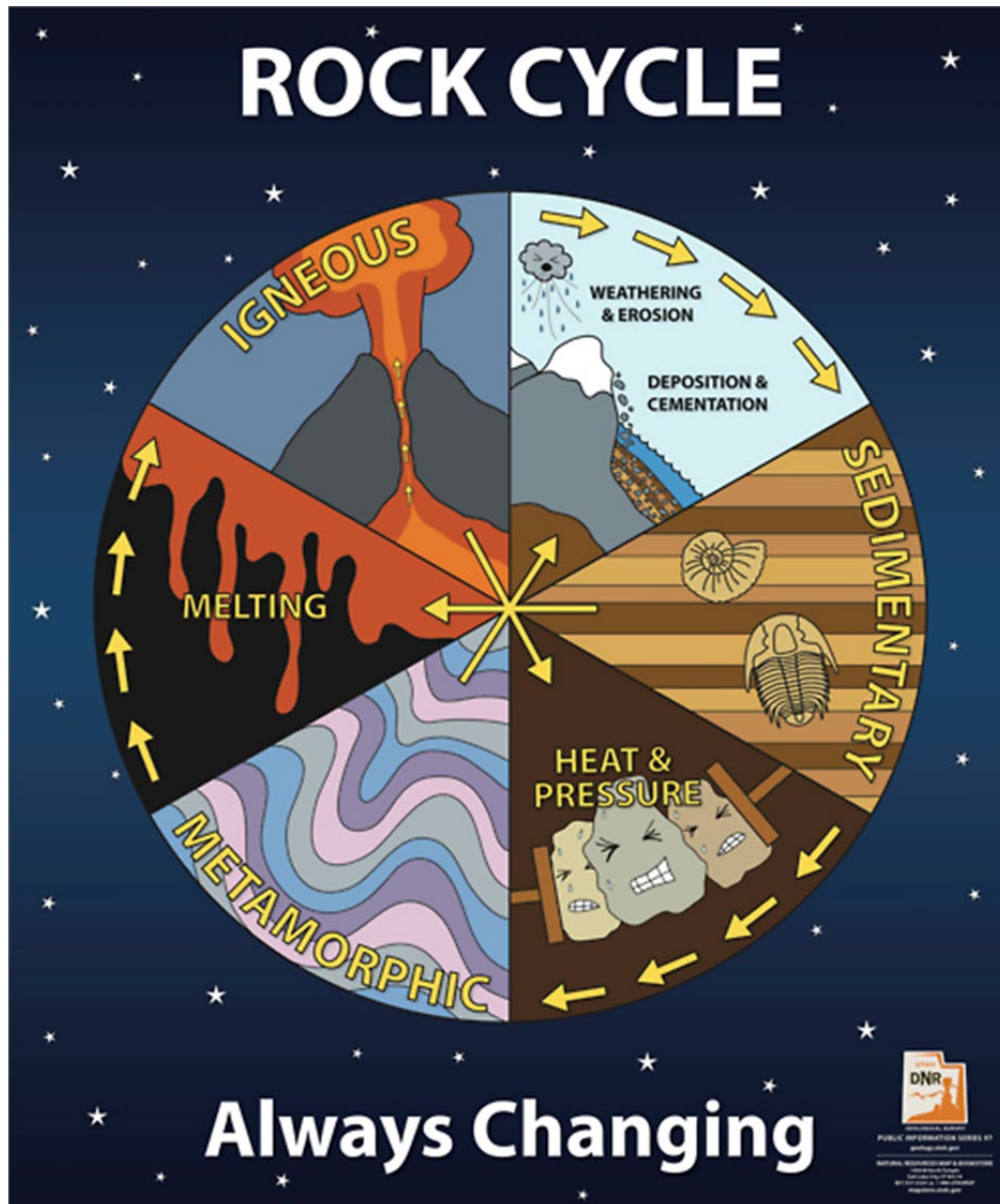


- Sedimentary



- Metamorphic





How the Rock Cycle Works

- Rocks are weathered, eroded, transported, deposited and lithified to form **DIFFERENTLY CLASSIFIED ROCKS.**

Sediments

- Grains of sand and other pieces of rock are taken off (eroded) of different landforms.
- This process is called
 - **Weathering**
 - **Erosion**





Physical Weathering

- Rocks breaking apart without changing their chemical composition.

Chemical Weathering

- Rocks being broken down by chemical reactions taken place like when water runs over a rock.



Erosion

- Process of breaking down rocks by wind, water or other natural causes.



Deposition

- When particles are carried by water, ice or wind and they are brought to another location.



Exploration Stations:

- Safety First:
 - Do not eat or drink anything.
 - If anything spills let someone know.
 - No horseplay



Safetymatters

Station 1:

- HCL and Water on Limestone.
- Write down your predictions and observations.



Station 2:

- Pile Sand in the center of the pan.
- Blow gently.
- What happens to the sand?
- Write down your predictions and observations.



Station 3:

- Pile Sand in the center of the pan.
- Using an eye dropper drop water on the top.
- What happens to the sand?
- Write down your predictions and observations.

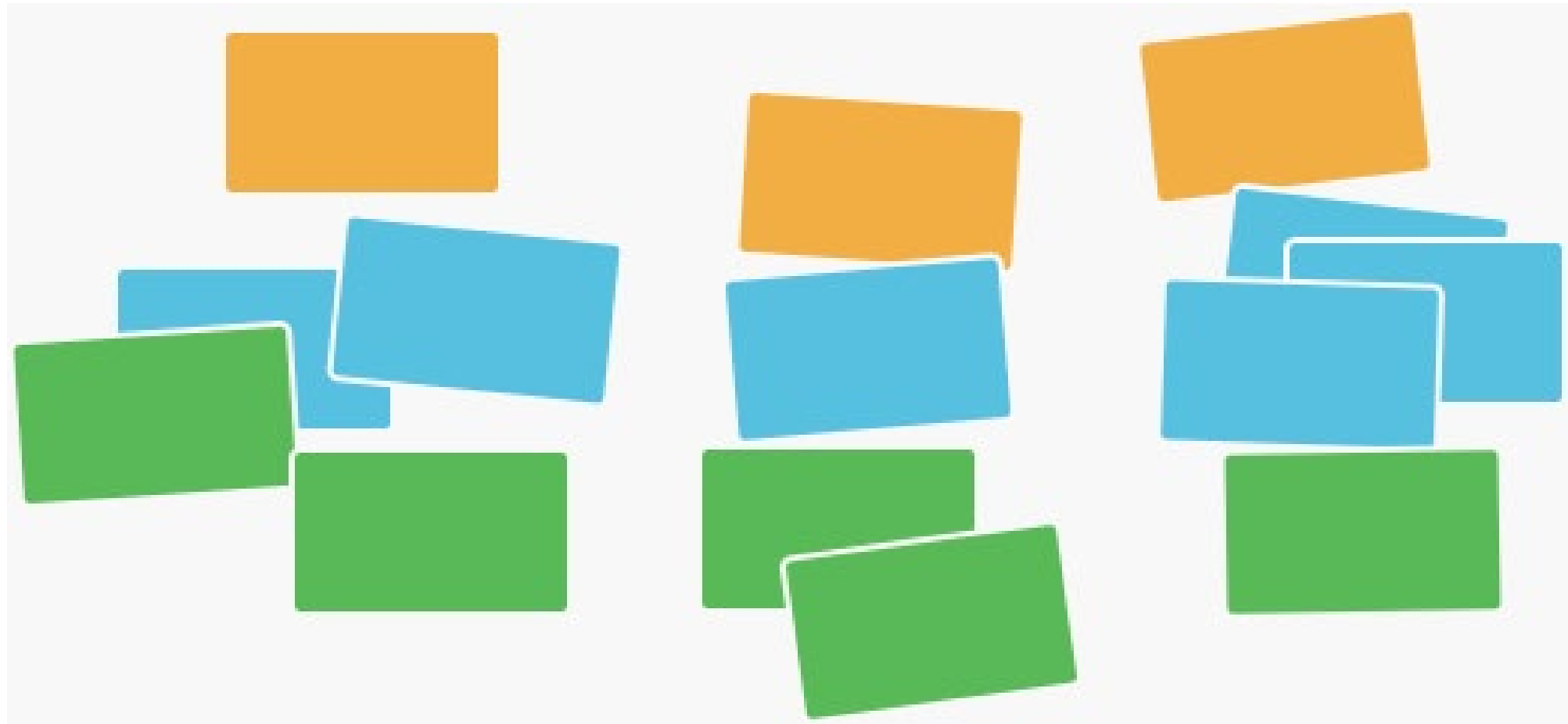


Station 4:

- Take on antacid tablet using tweezers and place it in the cup.
- Using an eye dropper drop water on the top.
- Watch for 3 minutes and see what happens. Compare the difference between the original antacid tablet and the water dropped one.
- Write down your predictions and observations.



Card Sort!



How was this formed?



1



2



3

QUIZ
Time

