

# Ride the Rock Cycle

Name \_\_\_\_\_

Go to the Science Spot's Kid Zone and click the link for Rocks & Minerals to find these sites.

**Site #1: Study Jams- Watch the video to complete this section and then do the quiz.**

1. Complete: Heat and pressure melts \_\_\_\_\_ rock and turns it into \_\_\_\_\_.  
When it cools it becomes \_\_\_\_\_ rock.
2. Igneous rock can be broken down by \_\_\_\_\_ and the pieces moved around by erosion. The mix of pieces become \_\_\_\_\_ rock, such as limestone.
3. The weight and pressure creates heat causing the \_\_\_\_\_ rock to turn into \_\_\_\_\_ rock, such as marble.
4. Try the quiz by clicking the Test Yourself button. How did you do? \_\_\_\_ out of 7 correct

**Site #2: Layered Earth - Click "Learn It" to begin.**

1. The rock cycle shows how the three families of rocks are continuously \_\_\_\_\_ over time.
2. What is magma? \_\_\_\_\_
3. What is the process of magma or lava cooling to create igneous rock called? \_\_\_\_\_
4. What is the difference between extrusive and intrusive rock? \_\_\_\_\_  
\_\_\_\_\_
5. What process breaks down igneous and other types of rock? \_\_\_\_\_
6. What process causes sediments to be transported and deposited in water ways? \_\_\_\_\_
7. What happens during lithification? \_\_\_\_\_
8. How are chemical sedimentary rocks classified? \_\_\_\_\_
9. What does heat and pressure do to sedimentary rock? \_\_\_\_\_
10. Which type of metamorphic rocks are called "baked rocks"? Why? \_\_\_\_\_  
\_\_\_\_\_
11. Click "Test Your Knowledge" and answer the questions. How did you do? 😊 😐 😞

## Ride the Rock Cycle - Your Turn

Imagine if you and a buddy were able to take a ride on a rock cycle ...

- What "theme" would you have for your story?
- Where would you start?
- What would happen during your journey?
- How would you change from one type of rock to another?

Create a story (children's book, cartoon, animation, etc.) about your imaginary ride on the rock cycle. You may complete the story on paper or electronically.

You need to include all three families of rocks along with the various processes involved to change them from one type to another over time. Use the word lists to help you! To earn credit for using a word you must include a definition or use it in context to give readers clues to its meaning.

### Ready?

1st - Make a brief outline of your story in the space at the bottom of this page.

2nd - Create your story on paper (construction paper, computer paper, or poster board) or use an electronic tool to help you.

*NOTE: Go to the Tech Skills page of the Science Spot's Kid Zone to find websites that will help you create an electronic story, cartoon, or animation.*

3rd - Have another group review your work. Make additions or corrections to your project based on their review.

4th - Submit your project to your teacher for a final grade. You will need to turn in the Peer Review worksheet as well.

### Word List:

- Chemical
- Clastic
- Cooling
- Erosion
- Extrusive
- Foliated
- Heat
- Igneous
- Intrusive
- Lava
- Magma
- Melting
- Metamorphic
- Nonfoliated
- Organic
- Pressure
- Sedimentary
- Weathering

### Bonus Words:

- Coal
- Gneiss
- Granite
- Limestone
- Marble
- Obsidian
- Pumice
- Quartzite
- Rhyolite
- Sandstone
- Shale
- Slate