

## Project: 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 using the Peer Review worksheet. 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
- Deposition
- 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

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(Over 6 = EC points)

# Ride the Rock Cycle Project - Teacher Grade Sheet

Names \_\_\_\_\_

## Content

Did the project illustrate the normal processes involved in the rock cycle? + 14 \_\_\_\_\_

- Described the role of weathering, erosion, & deposition in the rock cycle - +6
- Described how rocks change from melting & cooling (crystallization) - +4
- Described how great heat & great pressure change rocks- +4

Did the project incorporate all the different rock families? +20 \_\_\_\_\_

- Igneous (Described how they are formed & classified - +6)
- Sedimentary (Described how they are formed & classified - +8)
- Metamorphic (Described how they are formed & classified - +6)

## Other Criteria

Was the story interesting and/or entertaining? Would it be appropriate for 3rd-4th grade students? + 5 \_\_\_\_\_

Was the project scientifically correct? + 5 \_\_\_\_\_  
 (-1 for each error/misconception up to a total of 5 points)

Was the project completed on time? + 3 \_\_\_\_\_

Did the team use their class time wisely? + 3 \_\_\_\_\_

Does the project demonstrate a good amount of effort? + 3 \_\_\_\_\_

Was the project well written with no grammatical or spelling errors? (-1 for each up to a total of 5 points) + 5 \_\_\_\_\_

Peer Review Score +10 \_\_\_\_\_

**Total Score** = \_\_\_\_\_ / 76 = \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_ % \_\_\_\_\_

*Bonus Words  
Up to 6 % pts*

**Teacher Comments:**

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(Over 6 = EC points)