

Lesson/Activity Title:

THE ROCK CYCLE



Time: approximately 30-60 minutes for research and note-taking; approximately 30-45 minutes for detailed diagram

Instructional Goals:

- The student will use the **PebbleGo Next Science** online database to research and take notes on different types of rocks: sedimentary, igneous, and metamorphic.
- The student will use his/her research notes to draw and label a detailed diagram of the rock cycle.

Materials/Resources:

- **PebbleGo Next Science** online database
- **Types of Rocks** foldable graphic organizer (one for each student)
- **The Rock Cycle** handout (one for each student)

Procedures/Lesson Activities:

Focus



1. Ask students what the word *cycle* means. Write the best definition for the entire class to see. (A cycle is a series of regularly repeated events that always occur in the same order.)

Teach/Model

2. Brainstorm with the students the types of cycles that they know about. Ideas might include various life cycles, the water cycle, and the cycle of Earth's seasons as it orbits the sun.

Guided Practice

3. Explain that students will be researching the rock cycle.
4. Give each student a copy of the **Types of Rocks** foldable graphic organizer. Tell students that the important words and concepts they need to look for are listed on the front of the organizer. Those words/concepts need to appear somewhere in their notes about the different types of rocks.
5. Demonstrate how to navigate the **PebbleGo Next Science** database to locate the articles on the rock cycle and the types of rocks.
6. Go through the foldable graphic organizer with students to explain your expectations for the amount of details, examples, and descriptions needed in their notes.

Independent Practice

7. Allow students time to complete the **Types of Rocks** foldable graphic organizer. Monitor for student accuracy and understanding.

Closure

8. Give each student **The Rock Cycle** handout. Have each student use their **Types of Rocks** foldable graphic organizer to draw and label a detailed rock cycle.
9. Check student work for accuracy before asking students to glue their foldable graphic organizer and diagram into their science journals or notebooks for future reference.

THE ROCK CYCLE



Foldable Directions

1. Copy pages back-to-back in the order they are printed.

Pages 1 & 2

The following words/concepts should appear somewhere in your notes:

compaction cooling slowly high temperature/heat pressure
cementation deposition magma sediment
cooling quickly erosion melting weathering

Types of Rocks

Name: _____

Bibliography

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Diagram Showing Formation:

Examples:

How Formed: Where Formed:

Other Notes:

Metamorphic

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Pages 3 & 4

Sedimentary

Other Notes:

How Formed: Where Formed:

Examples:

Diagram Showing Formation:

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Diagram Showing Formation:

Examples:

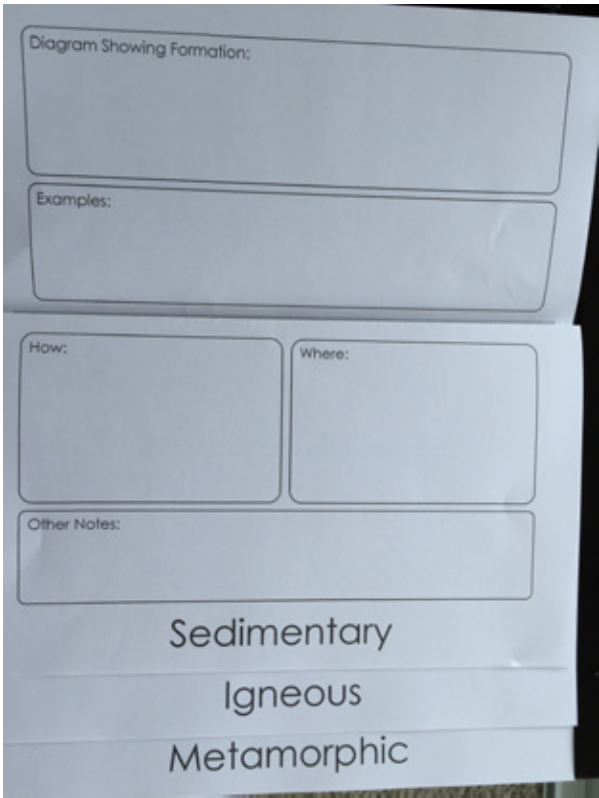
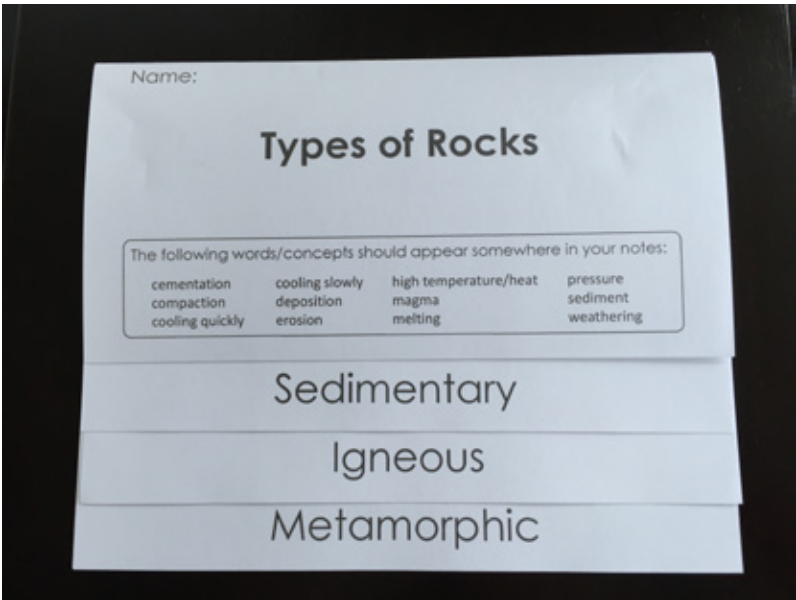
How Formed: Where Formed:

Other Notes:

Igneous

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- 2. Fold along the gray lines.
- 3. Nest pages 3 & 4 inside pages 1 & 2.
- 4. Staple the pages together.



The following words/concepts should appear somewhere in your notes:

cooling quickly	erosion	melting	weathering
compaction	deposition	magma	sediment
cementation	cooling slowly	high temperature/heat	pressure

Types of Rocks

Name:

Bibliography

Diagram Showing Formation:

Examples:

How Formed:

Where Formed:

Other Notes:

Metamorphic

Sedimentary

Other Notes:

Where Formed:

How Formed:

Examples:

Diagram Showing Formation:

Diagram Showing Formation:

Examples:

How Formed:

Where Formed:

Other Notes:

Igneous

Name: _____

The Rock Cycle

Using your **Types of Rocks** notes, draw and label a detailed diagram of the rock cycle. Include all of the important words/concepts from your notes in your rock cycle diagram.

