Name: Date: Score: / 8

Rock Cycle Deep Dive: Learn and Practice

How rocks change from one type to another.

Read each question. Circle the best answer.

💡 The Rock Cycle

- Igneous rock forms when melted rock cools and hardens.
- Sedimentary rock forms when sediments are pressed and cemented together.
- Metamorphic rock forms when heat and pressure change existing rock.
- limestone under heat and pressure: marble

1 Which of these rocks is igneous?

A. Sandstone B. Shale C. Basalt D. Marble

2 What is magma?

A. A kind of crystal

B. Melted rock on the surface C. Hardened sand

D. Melted rock below the surface

3 🌋 Which type of rock forms from cooled magma or lava?

A. Igneous B. Metamorphic C. Sedimentary

D. Fossil

4 Marble is a metamorphic rock. Which rock does it form from?

A. Granite B. Limestone C. Basalt D. Obsidian

5 Why does obsidian have no visible crystals?

A. It formed in a river B. It cooled very slowly

C. Lava cooled very quickly

D. It was squeezed by pressure

6 What is the rock cycle?

A. A machine that crushes rocks

B. Rocks growing like plants

C. Rocks slowly changing from type to type

D. Rocks rolling downhill

7 Which type of rock often contains fossils?

A. Igneous B. Sedimentary C. Metamorphic

D. Volcanic glass

8 Which rock forms when heat and pressure change an existing rock?

A. Igneous B. Sedimentary C. Metamorphic

D. Meteorite

✏️ Explain it! Write two facts you learned about rock cycle deep dive.

ANSWER KEY

Rock Cycle Deep Dive: Learn and Practice (answers)

How rocks change from one type to another.

Read each question. Circle the best answer.

1 Which of these rocks is igneous?

A. Sandstone B. Shale **C. Basalt** D. Marble

Basalt forms when lava cools quickly. Sandstone and shale are sedimentary, and marble is metamorphic.

2 What is magma?

A. A kind of crystal

B. Melted rock on the surface C. Hardened sand

D. Melted rock below the surface

Magma is melted rock underground. When it reaches the surface, we call it lava.

3 🌋 Which type of rock forms from cooled magma or lava?

A. Igneous B. Metamorphic C. Sedimentary

D. Fossil

Igneous means made from fire. These rocks form when melted rock cools and hardens.

4 Marble is a metamorphic rock. Which rock does it form from?

A. Granite **B. Limestone** C. Basalt

D. Obsidian

When limestone is heated and squeezed deep underground, its crystals grow and it becomes marble.

5 Why does obsidian have no visible crystals?

A. It formed in a river B. It cooled very slowly

C. Lava cooled very quickly

D. It was squeezed by pressure

Obsidian is volcanic glass. Lava cooled so fast that crystals had no time to grow.

6 What is the rock cycle?

A. A machine that crushes rocks

B. Rocks growing like plants

C. Rocks slowly changing from type to type

D. Rocks rolling downhill

Over long periods, any rock type can change into another. This never ending process is the rock cycle.

7 Which type of rock often contains fossils?

A. Igneous **B. Sedimentary** C. Metamorphic

D. Volcanic glass

Sedimentary rock forms gently in layers, so plant and animal remains can be preserved as fossils.

8 Which rock forms when heat and pressure change an existing rock?

A. Igneous B. Sedimentary **C. Metamorphic**

D. Meteorite

Metamorphic means changed form. Heat and pressure deep underground transform rock without fully melting it.