

“I have this rock, who has that rock?”

Geology activity for kids

Background information: Students must be familiar with minerals, igneous rocks, metamorphic rocks, sedimentary rocks and geology terminology before playing the game.

Instructions:

Cut out the cards and pass them out to the students. Depending on the class size, some students may have more than one or two cards.

The student with the card that states: “I have the **first card**” begins the game by reading the question on their card out loud.

The student with the correct answer replies, and then reads the question on their card out loud.

The game continues around the room until everyone has had a turn.

The student holding the last card reads the question: “Who has the **first card**” and the game ends when the final student answers: “I have the **first card.**”

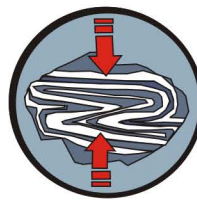
Symbol key:



minerals



igneous
rocks



metamorphic
rocks



sedimentary
rocks

Minerals: The building blocks of rocks



I have the first card.

Who has the mineral with a hardness of 7 on the Moh's hardness scale?



I have sulfur.

Who has the mineral that can be used to make ceramics?



I have quartz.

Who has the mineral that really "fizzes" when you put acid on it?



I have feldspar.

Who has the mineral that is a 2 on the Moh's hardness scale and is used to make wall board?



I have calcite.

Who has the heavy mineral with a metallic luster that also contains lead?



I have gypsum.

Who has the mineral that forms in the Earth's mantle and has a hardness of 10?



I have galena.

Who has the yellow mineral that stinks?



I have diamond.

Who has the softest mineral on Moh's hardness scale and is used to make powder?

Minerals: The building blocks of rocks



I have talc.

Who has the mineral that contains a red streak?



I have mica

Who has the mineral that contains zinc and stinks when scratched?



I have hematite.

Who has the mineral that is a 4 on the Moh's hardness scale and is used in toothpaste?



I have sphalerite

Who has the mineral that is used as table salt?



I have fluorite.

Who has the mineral that can look like pink rice?



I have halite.

Who has the term for the natural building blocks of rocks?



I have dolomite.

Who has the mineral that breaks into thin sheets?



I have minerals.

Who has the term for the hot, powdery material that erupts from a volcano?

Igneous Rocks: From the Earth's Furnace



I have volcanic ash.

Who has the igneous rock that is broken into small pieces and used to make shingles?



I have lava.

Who has the term for molten rock below the Earth's surface?



I have syenite.

Who has the igneous rock that contains quartz and feldspar and is used to make counter tops?



I have magma.

Who has the term for a large, cone-shaped structure that erupts?



I have granite.

Who has the igneous rock from Arkansas that is the source of diamonds?



I have volcano.

Who has the name for volcanic glass?



I have lamproite.

Who has the term for molten rock on the Earth's surface?



I have obsidian.

Who has the term for rocks that changed by heat and pressure?

Metamorphic Rocks: Rocks changed by heat and pressure



I have metamorphic rocks.

Who has the terms for the processes that can change a rock?



I have meta-quartzite.

Who has the shiny, metamorphic rock that contains a lot of visible mica minerals?



I have heat and pressure.

Who has the metamorphic rock that forms from limestone?



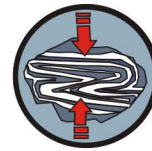
I have schist.

Who has the metamorphic rock that sounds like the word "nice"?



I have marble.

Who has the metamorphic rock that looks a lot like shale?



I have gneiss.

Who has the word for something that can be carved from the rock marble?



I have slate.

Who has the metamorphic rock that forms from sandstone?



I have statue.

Who has the term for the type of rocks that are most likely to contain fossils?

Sedimentary Rocks: Formed by Sediment



I have sedimentary rocks.

Who has the term for ancient life that is preserved in the rocks?



I have aluminum.

Who has the flat rock that was once ancient mud?



I have a fossil.

Who has the two sedimentary rocks that really react to acid?



I have shale.

Who has the rock that sticks to your tongue?



I have limestone and chalk.

Who has the Arkansas state rock?



I have kaolin.

Who has the rock that is used to sharpen knives?



I have bauxite.

Who has the name of the metal that is found in bauxite?



I have novaculite.

Who has the first card ?

“I have this rock, who has that rock?”

Answer Key

Q. Who has the mineral with a hardness of 7 on Moh's hardness scale?

A. I have **quartz**.

Q. Who has the mineral that really “fizzes” when you put acid on it?

A. I have **calcite**.

Q. Who has the heavy mineral with a metallic luster that also contains lead?

A. I have **galena**.

Q. Who has the yellow mineral that stinks?

A. I have **sulfur**.

Q. Who has the mineral that can be used to make ceramics?

A. I have **feldspar**.

Q. Who has the mineral that is a 2 on the Moh's hardness scale and is used to make wall board?

A. I have **gypsum**.

Q. Who has the mineral that forms in the mantle and has a hardness of 10?

A. I have **diamond**.

Q. Who has the softest mineral on Moh's hardness scale that is used to make powder?

A. I have **talc**.

Q. Who has the mineral that contains iron and has a red streak?

A. I have **hematite**.

Q. Who has the mineral with a hardness of 4 on the Moh's hardness scale and is used in toothpaste?

A. I have **fluorite**.

Q. Who has the mineral that looks like pink rice?

A. I have **dolomite**.

Q. Who has the mineral that breaks into thin sheets?

A. I have **mica**.

Q. Who has the mineral that contains zinc and stinks when you scratch it?

A. I have **sphalerite**.

Q. Who has the mineral that is used as table salt?

A. I have **halite**.

Q. Who has the term for the natural building blocks of rocks?

A. I have **minerals**.

Q. Who has the term for the hot, powdery material that erupts from a volcano?

A. I have **volcanic ash**.

Q. Who has the Arkansas igneous rock that is broken into small pieces and used to make shingles?

A. I have **syenite**.

Q. Who has the igneous rock that contains quartz and feldspar, and is used to make counter tops?

A. I have **granite**.

Q. Who has the igneous rock from Arkansas that is the source of diamonds?

A. I have **lamproite**.

Q. Who has the term for molten rock on the Earth's surface?

A. I have **lava**.

Q. Who has the term for molten rock below the Earth's surface?

A. I have **magma**.

Q. Who has the term for a large, cone-shaped structure that erupts?

A. I have **volcano**.

Q. Who has the name for volcanic glass?

A. I have **obsidian**.

“I have this rock, who has that rock?”

Answer Key

- Q.** Who has the term for rocks changed by heat and pressure?
A. I have metamorphic rocks.
- Q.** Who has the terms for the processes that can change a rock?
A. I have heat and pressure.
- Q.** Who has the metamorphic rock that forms from limestone?
A. I have marble.
- Q.** Who has the metamorphic rock that looks a lot like shale?
A. I have slate.
- Q.** Who has the metamorphic rock that forms from sandstone?
A. I have meta-quartzite.
- Q.** Who has the metamorphic rock that is shiny and contains a lot of mica minerals?
A. I have schist.
- Q.** Who has the metamorphic rock that sounds like the word “nice”?
A. I have gneiss.
- Q.** Who has the word for something that can be carved from marble?
A. I have statue.
- Q.** Who has the term for the type of rocks that are most likely to contain fossils?
A. I have sedimentary rocks.
- Q.** Who has the term for ancient life that is preserved in the rocks?
A. I have a fossil.
- Q.** Who has the two sedimentary rocks from Arkansas that really react to acid?
A. I have limestone and chalk.
- Q.** Who has the Arkansas state rock?
A. I have bauxite.
- Q.** Who has the name of the metal that is found in bauxite?
A. I have aluminum.
- Q.** Who has the flat rock that was once ancient mud?
A. I have shale.
- Q.** Who has the rock that sticks to your tongue?
A. I have kaolin.
- Q.** Who has the rock that is used to sharpen knives?
A. I have novaculite.
- Q.** Who has the first card?
A. I have the first card.