

Pre-session Knowledge Assessment

Please fill in according to your current knowledge. You may leave questions blank.

* Indicates required question

1. Participant ID (to be provided by researcher) *

2. What characteristics tell us that a rock is Gabbro? (Select all that apply.)

Tick all that apply.

- ☐ Small crystals
- ☐ Made up of sand or pebbles
- ☐ Large crystals
- ☐ Presence of holes
- ☐ Glassy Surface
- ☐ Presence of fossils
- ☐ Presence of layers
- ☐ Light-coloured
- ☐ Sugary appearance
- ☐ Feels flaky
- ☐ Formed from sediments
- ☐ Formed from a volcanic eruption
- ☐ Formed by pressure

3. What characteristics tell us that a rock is Quartzite? (Select all that apply.)

Tick all that apply.

- ☐ Small crystals
- ☐ Made up of sand or pebbles
- ☐ Large crystals
- ☐ Presence of holes
- ☐ Glassy Surface
- ☐ Presence of fossils
- ☐ Presence of layers
- ☐ Light-coloured
- ☐ Sugary appearance
- ☐ Feels flaky
- ☐ Formed from sediments
- ☐ Formed from a volcanic eruption
- ☐ Formed by pressure

4. What characteristics tell us that a rock is Sandstone? (Select all that apply.)

Tick all that apply.

- ☐ Small crystals
- ☐ Made up of sand or pebbles
- ☐ Large crystals
- ☐ Presence of holes
- ☐ Glassy Surface
- ☐ Presence of fossils
- ☐ Presence of layers
- ☐ Light-coloured
- ☐ Sugary appearance
- ☐ Feels flaky
- ☐ Formed from sediments
- ☐ Formed from a volcanic eruption
- ☐ Formed by pressure

5. What characteristics tell us that a rock is Granite? (Select all that apply.)

Tick all that apply.

- ☐ Small crystals
- ☐ Made up of sand or pebbles
- ☐ Large crystals
- ☐ Presence of holes
- ☐ Glassy Surface
- ☐ Presence of fossils
- ☐ Presence of layers
- ☐ Light-coloured
- ☐ Sugary appearance
- ☐ Feels flaky
- ☐ Formed from sediments
- ☐ Formed from a volcanic eruption
- ☐ Formed by pressure

6. What characteristics tell us that a rock is Conglomerate? (Select all that apply.)

Tick all that apply.

- ☐ Small crystals
- ☐ Made up of sand or pebbles
- ☐ Large crystals
- ☐ Presence of holes
- ☐ Glassy Surface
- ☐ Presence of fossils
- ☐ Presence of layers
- ☐ Light-coloured
- ☐ Sugary appearance
- ☐ Feels flaky
- ☐ Formed from sediments
- ☐ Formed from a volcanic eruption
- ☐ Formed by pressure

7. What characteristics tell us that a rock is Schist? (Select all that apply.)

Tick all that apply.

- ☐ Small crystals
- ☐ Made up of sand or pebbles
- ☐ Large crystals
- ☐ Presence of holes
- ☐ Glassy Surface
- ☐ Presence of fossils
- ☐ Presence of layers
- ☐ Light-coloured
- ☐ Sugary appearance
- ☐ Feels flaky
- ☐ Formed from sediments
- ☐ Formed from a volcanic eruption
- ☐ Formed by pressure

8. What characteristics tell us that a rock is Shale? (Select all that apply.)

Tick all that apply.

- ☐ Small crystals
- ☐ Made up of sand or pebbles
- ☐ Large crystals
- ☐ Presence of holes
- ☐ Glassy Surface
- ☐ Presence of fossils
- ☐ Presence of layers
- ☐ Light-coloured
- ☐ Sugary appearance
- ☐ Feels flaky
- ☐ Formed from sediments
- ☐ Formed from a volcanic eruption
- ☐ Formed by pressure

9. What characteristics tell us that a rock is Obsidian? (Select all that apply.)

Tick all that apply.

- ☐ Small crystals
- ☐ Made up of sand or pebbles
- ☐ Large crystals
- ☐ Presence of holes
- ☐ Glassy Surface
- ☐ Presence of fossils
- ☐ Presence of layers
- ☐ Light-coloured
- ☐ Sugary appearance
- ☐ Feels flaky
- ☐ Formed from sediments
- ☐ Formed from a volcanic eruption
- ☐ Formed by pressure

10. What characteristics tell us that a rock is Gneiss? (Select all that apply.)

Tick all that apply.

- ☐ Small crystals
- ☐ Made up of sand or pebbles
- ☐ Large crystals
- ☐ Presence of holes
- ☐ Glassy Surface
- ☐ Presence of fossils
- ☐ Presence of layers
- ☐ Light-coloured
- ☐ Sugary appearance
- ☐ Feels flaky
- ☐ Formed from sediments
- ☐ Formed from a volcanic eruption
- ☐ Formed by pressure

11. What characteristics tell us that a rock is Limestone? (Select all that apply.)

Tick all that apply.

- ☐ Small crystals
- ☐ Made up of sand or pebbles
- ☐ Large crystals
- ☐ Presence of holes
- ☐ Glassy Surface
- ☐ Presence of fossils
- ☐ Presence of layers
- ☐ Light-coloured
- ☐ Sugary appearance
- ☐ Feels flaky
- ☐ Formed from sediments
- ☐ Formed from a volcanic eruption
- ☐ Formed by pressure

12. What characteristics tell us that a rock is Slate? (Select all that apply.)

Tick all that apply.

- ☐ Small crystals
- ☐ Made up of sand or pebbles
- ☐ Large crystals
- ☐ Presence of holes
- ☐ Glassy Surface
- ☐ Presence of fossils
- ☐ Presence of layers
- ☐ Light-coloured
- ☐ Sugary appearance
- ☐ Feels flaky
- ☐ Formed from sediments
- ☐ Formed from a volcanic eruption
- ☐ Formed by pressure

13. What characteristics tell us that a rock is Pumice? (Select all that apply.)

Tick all that apply.

- ☐ Small crystals
- ☐ Made up of sand or pebbles
- ☐ Large crystals
- ☐ Presence of holes
- ☐ Glassy Surface
- ☐ Presence of fossils
- ☐ Presence of layers
- ☐ Light-coloured
- ☐ Sugary appearance
- ☐ Feels flaky
- ☐ Formed from sediments
- ☐ Formed from a volcanic eruption
- ☐ Formed by pressure

14. What could cause a rock to form large crystals?

Mark only one oval.

- ☐ Presence of sand and other particles
- ☐ A slow cooling process
- ☐ A rapid cooling process

15. What could cause a rock to form small crystals?

Mark only one oval.

- ☐ Presence of sand and other particles
- ☐ A slow cooling process
- ☐ A rapid cooling process

16. Which of the following does NOT affect the colour of a rock?

Mark only one oval.

- ☐ The environmental conditions during formation
- ☐ The kinds of minerals present
- ☐ The presence of trapped air in the rock structure

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Post-Session Knowledge Assessment

Condition 1 - Sentence-Selection

* Indicates required question

1. Participant ID (to be provided by researcher) *

2. What characteristics tell us that a rock is Sandstone? (Select all that apply.)

Tick all that apply.

- ☐ Small crystals
- ☐ Made up of sand or pebbles
- ☐ Large crystals
- ☐ Presence of holes
- ☐ Glassy Surface
- ☐ Presence of fossils
- ☐ Presence of layers
- ☐ Light-coloured
- ☐ Sugary appearance
- ☐ Feels flaky
- ☐ Formed from sediments
- ☐ Formed from a volcanic eruption
- ☐ Formed by pressure

3. What characteristics tell us that a rock is Gabbro? (Select all that apply.)

Tick all that apply.

- ☐ Small crystals
- ☐ Made up of sand or pebbles
- ☐ Large crystals
- ☐ Presence of holes
- ☐ Glassy Surface
- ☐ Presence of fossils
- ☐ Presence of layers
- ☐ Light-coloured
- ☐ Sugary appearance
- ☐ Feels flaky
- ☐ Formed from sediments
- ☐ Formed from a volcanic eruption
- ☐ Formed by pressure

4. What characteristics tell us that a rock is Gneiss? (Select all that apply.)

Tick all that apply.

- ☐ Small crystals
- ☐ Made up of sand or pebbles
- ☐ Large crystals
- ☐ Presence of holes
- ☐ Glassy Surface
- ☐ Presence of fossils
- ☐ Presence of layers
- ☐ Light-coloured
- ☐ Sugary appearance
- ☐ Feels flaky
- ☐ Formed from sediments
- ☐ Formed from a volcanic eruption
- ☐ Formed by pressure

5. What characteristics tell us that a rock is Obsidian? (Select all that apply.)

Tick all that apply.

- ☐ Small crystals
- ☐ Made up of sand or pebbles
- ☐ Large crystals
- ☐ Presence of holes
- ☐ Glassy Surface
- ☐ Presence of fossils
- ☐ Presence of layers
- ☐ Light-coloured
- ☐ Sugary appearance
- ☐ Feels flaky
- ☐ Formed from sediments
- ☐ Formed from a volcanic eruption
- ☐ Formed by pressure

6. What characteristics tell us that a rock is Schist? (Select all that apply.)

Tick all that apply.

- ☐ Small crystals
- ☐ Made up of sand or pebbles
- ☐ Large crystals
- ☐ Presence of holes
- ☐ Glassy Surface
- ☐ Presence of fossils
- ☐ Presence of layers
- ☐ Light-coloured
- ☐ Sugary appearance
- ☐ Feels flaky
- ☐ Formed from sediments
- ☐ Formed from a volcanic eruption
- ☐ Formed by pressure

7. What characteristics tell us that a rock is Conglomerate? (Select all that apply.)

Tick all that apply.

- ☐ Small crystals
- ☐ Made up of sand or pebbles
- ☐ Large crystals
- ☐ Presence of holes
- ☐ Glassy Surface
- ☐ Presence of fossils
- ☐ Presence of layers
- ☐ Light-coloured
- ☐ Sugary appearance
- ☐ Feels flaky
- ☐ Formed from sediments
- ☐ Formed from a volcanic eruption
- ☐ Formed by pressure

8. What could cause a rock to form large crystals?

Mark only one oval.

- ☐ Presence of sand and other particles
- ☐ A slow cooling process
- ☐ A rapid cooling process

9. What could cause a rock to form small crystals?

Mark only one oval.

- ☐ Presence of sand and other particles
- ☐ A slow cooling process
- ☐ A rapid cooling process

10. Which of the following does NOT affect the colour of a rock?

Mark only one oval.

- ☐ The environmental conditions during formation
- ☐ The kinds of minerals present
- ☐ The presence of trapped air in the rock structure

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Post-Session Knowledge Assessment

Condition 2 - Natural Language

* Indicates required question

1. Participant ID (to be provided by researcher) *

2. What characteristics tell us that a rock is Quartzite? (Select all that apply.)

Tick all that apply.

- ☐ Small crystals
- ☐ Made up of sand or pebbles
- ☐ Large crystals
- ☐ Presence of holes
- ☐ Glassy Surface
- ☐ Presence of fossils
- ☐ Presence of layers
- ☐ Light-coloured
- ☐ Sugary appearance
- ☐ Feels flaky
- ☐ Formed from sediments
- ☐ Formed from a volcanic eruption
- ☐ Formed by pressure

3. What characteristics tell us that a rock is Pumice? (Select all that apply.)

Tick all that apply.

- ☐ Small crystals
- ☐ Made up of sand or pebbles
- ☐ Large crystals
- ☐ Presence of holes
- ☐ Glassy Surface
- ☐ Presence of fossils
- ☐ Presence of layers
- ☐ Light-coloured
- ☐ Sugary appearance
- ☐ Feels flaky
- ☐ Formed from sediments
- ☐ Formed from a volcanic eruption
- ☐ Formed by pressure

4. What characteristics tell us that a rock is Shale? (Select all that apply.)

Tick all that apply.

- ☐ Small crystals
- ☐ Made up of sand or pebbles
- ☐ Large crystals
- ☐ Presence of holes
- ☐ Glassy Surface
- ☐ Presence of fossils
- ☐ Presence of layers
- ☐ Light-coloured
- ☐ Sugary appearance
- ☐ Feels flaky
- ☐ Formed from sediments
- ☐ Formed from a volcanic eruption
- ☐ Formed by pressure

5. What characteristics tell us that a rock is Granite? (Select all that apply.)

Tick all that apply.

- ☐ Small crystals
- ☐ Made up of sand or pebbles
- ☐ Large crystals
- ☐ Presence of holes
- ☐ Glassy Surface
- ☐ Presence of fossils
- ☐ Presence of layers
- ☐ Light-coloured
- ☐ Sugary appearance
- ☐ Feels flaky
- ☐ Formed from sediments
- ☐ Formed from a volcanic eruption
- ☐ Formed by pressure

6. What characteristics tell us that a rock is Slate? (Select all that apply.)

Tick all that apply.

- ☐ Small crystals
- ☐ Made up of sand or pebbles
- ☐ Large crystals
- ☐ Presence of holes
- ☐ Glassy Surface
- ☐ Presence of fossils
- ☐ Presence of layers
- ☐ Light-coloured
- ☐ Sugary appearance
- ☐ Feels flaky
- ☐ Formed from sediments
- ☐ Formed from a volcanic eruption
- ☐ Formed by pressure

7. What characteristics tell us that a rock is Limestone? (Select all that apply.)

Tick all that apply.

- ☐ Small crystals
- ☐ Made up of sand or pebbles
- ☐ Large crystals
- ☐ Presence of holes
- ☐ Glassy Surface
- ☐ Presence of fossils
- ☐ Presence of layers
- ☐ Light-coloured
- ☐ Sugary appearance
- ☐ Feels flaky
- ☐ Formed from sediments
- ☐ Formed from a volcanic eruption
- ☐ Formed by pressure

8. What could cause a rock to form large crystals?

Mark only one oval.

- ☐ Presence of sand and other particles
- ☐ A slow cooling process
- ☐ A rapid cooling process

9. What could cause a rock to form small crystals?

Mark only one oval.

- ☐ Presence of sand and other particles
- ☐ A slow cooling process
- ☐ A rapid cooling process

10. Which of the following does NOT affect the colour of a rock?

Mark only one oval.

- ☐ The environmental conditions during formation
- ☐ The kinds of minerals present
- ☐ The presence of trapped air in the rock structure

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