

# 8G Rocks and weathering

## Extension questions

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Answer the following questions:



Click mouse to reveal answer

- Q1. What do we call a naturally occurring aggregate of minerals?
- Q2. What do we call the physical, biological or chemical breakdown of rocks?
- Q3. What do we call the transport of weathered rock?
- Q4. What do we call the deposition (laying down) of small particles of rock, usually on a sea or river bed?
- Q5. What word means rubbing away, for example when rocks are swept along by a river?
- Q6. What do you call the place where a river joins the sea?
- Q7. What do you call a valley full of flowing ice?
- Q8. Give a word that means able to soak up liquid like a sponge?
- Q9. Name a hard, white form of calcium carbonate that can be polished and that is used to make statues?
- Q10. Name a soft, white form of calcium carbonate that forms the cliffs near Dover?
- Q11. Name a form of calcium carbonate that is softer than marble but harder than chalk?
- Q12. Name a hard, igneous rock with large pink, grey, black and white crystals?
- Q13. Name a black, volcanic rock with tiny crystals?
- Q14. Name the shiny black, glassy volcanic rock which has no crystals in it?
- Q15. Name a light grey volcanic rock that floats on water. It is used to remove hard skin?
- Q16. What do we call liquid drops that fall from the sky in a storm?

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### Answers:

- A1. Rock
- A2. Weathering
- A3. Erosion
- A4. Sedimentation
- A5. Abrasion
- A6. An estuary A delta
- A7. A glacier
- A8. Porous
- A9. Marble
- A10. Chalk
- A11. Limestone
- A12. Granite
- A13. Basalt
- A14. Obsidian
- A15. Pumice
- A16. Rain

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multiple choice

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Click mouse to reveal answer

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1: Rocks are usually made from ?

- 
- A Metal elements only
- 
- B Mixture of elements and minerals
- 
- C One pure mineral
- 
- D Mixture of different elements
- 

---

2: There are three types of rock based on how they are formed. They are ?

- 
- A Igneous, bricks and ceramics
- 
- B Sedimentary, igneous & metamorphic
- 
- C Bricks, mortar and cement
- 
- D Basalt, granite and sandstone
- 

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3: Which rock from below contains almost pure calcium carbonate ?

- 
- A Limestone
- 
- B Granite
- 
- C Basalt
- 
- D Sandstone
- 

---

4: Which of the following rocks is most likely to be eroded first by a river ?

- 
- A Basalt
- 
- B Granite
- 
- C Sandstone
- 
- D Marble
-

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multiple choice

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- C
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- C
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3: Which rock from below contains almost pure calcium carbonate ?

- A Limestone
- B
- C
- D

4: Which of the following rocks is most likely to be eroded first by a river ?

- A
- B
- C Sandstone
- D

Answer all the questions below:



Click mouse to reveal answer

1) Unscramble the following words:

maliensr

esiron

leccy

rewheated

2) Make three sentences using the following nine words or phrases:

rock cycle continuous  
weathering  
sediment

breakdown  
rocks  
deposited

and formation  
erosion  
sedimentary

3) Match the word or phrase with the right meaning:

Weathering



Minerals are compounds or elements with distinct structures

Mineral



Continuous process of rock breakdown and formation

Rock cycle



Physical, biological and chemical processes that wear rocks

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## literacy in science

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Answer all the questions below:

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erosion

cycle

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Weathering

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Mineral

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## complete the sentence

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Place the right word or words to complete the sentence:

 [Click mouse to reveal answer](#)

freezes

minerals

formed

textures

heating

chalk

rock

three

limestone

- A rock is a mixture of some elements and \_\_\_\_\_ .
- Water carries \_\_\_\_\_ fragments which may form new sedimentary rocks.
- Rocks have different \_\_\_\_\_ depending on how they are formed.
- Continuous cooling and \_\_\_\_\_ of rocks cause exfoliation.
- There are \_\_\_\_\_ types of rock weathering: physical, biological and chemical.
- Acid rain can react with rocks like \_\_\_\_\_ wearing it away chemically.
- Sedimentary rocks are \_\_\_\_\_ by the deposition and compacting of sediments.
- When water \_\_\_\_\_ forming ice, it expands causing the breaking up of rocks.
- Marble is a metamorphic rock that begins its life as \_\_\_\_\_ or limestone.

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## complete the sentence

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- a) A rock is a mixture of some elements and minerals.
- b) Water carries rock fragments which may form new sedimentary rocks.
- c) Rocks have different textures depending on how they are formed.
- d) Continuous cooling and heating of rocks cause exfoliation.
- e) There are three types of rock weathering: physical, biological and chemical.
- f) Acid rain can react with rocks like limestone wearing it away chemically.
- g) Sedimentary rocks are formed by the deposition and compacting of sediments.
- h) When water freezes forming ice, it expands causing the breaking up of rocks.
- i) Marble is a metamorphic rock that begins its life as chalk or limestone.