

8H The rock cycle

Extension questions

Science Interactive LTD, PO BOX 50764 LONDON NW6 9AT email: sales@science-interactive.co.uk

web: www.science-interactive.co.uk

Answer the following questions:



Click mouse to reveal answer

- Q1. What do we call the collection of processes which shape the surface of the Earth?
- Q2. Which rock type is formed from the cooling of molten rock (magma)?
- Q3. Which rock type is formed by the deposition of small particles of eroded rock?
- Q4. Which rock type is formed by the action of heat and/or pressure on an existing rock?
- Q5. What do we call molten (liquid) rock, beneath the earth's surface?
- Q6. What do we call molten (liquid) rock, flowing over the earth's surface?
- Q7. From where does lava usually flow?
- Q8. What do we call it when a volcano becomes active, spewing out material?
- Q9. What do we call the fine particles of material thrown into the atmosphere during a volcanic eruption?
- Q10. What do we call igneous rocks formed from magma beneath the earth's surface?
- Q11. What do we call igneous rocks formed from magma on top of the earth's surface?
- Q12. What do you call it when bare rock appears in a landscape?
- Q13. What do you call the movement of rock particles by a river, for example?
- Q14. What are formed when tectonic plates push together and raise layers of rock?
- Q15. Give a word that means the squashing or squeezing by the weight of rock above?

8H The rock cycle

Extension questions

Science Interactive LTD, PO BOX 50764 LONDON NW6 9AT email: sales@science-interactive.co.uk

web: www.science-interactive.co.uk

Answers:

- A1. The Rock Cycle
- A2. Igneous
- A3. Sedimentary
- A4. Metamorphic
- A5. Magma
- A6. Lava
- A7. A volcano
- A8. An eruption
- A9. Ash
- A10. Intrusive
- A11. Extrusive
- A12. Exposure
- A13. Transportation
- A14. Mountains
- A15. Compression

8H The rock cycle

multiple choice

Science Interactive LTD. PO BOX 50764 LONDON NW6 9AT email: sales@science-interactive.co.uk

web: www.science-interactive.co.uk



Click mouse to reveal answer

1: What conditions turn chalk or limestone into marble ?

- A Heat and Earth's movement
- B Heat, time and pressure
- C Heat only
- D Pressure only

2: Which process forms magma from sedimentary rock ?

- A Erosion and melting
- B Erosion and cooling
- C Increasing pressure
- D Melting only

3: What type of rock is formed when a volcano erupts ?

- A Metamorphic
- B Igneous
- C Sedimentary
- D Ceramic

4: Which type of rock is easily eroded by acid rain ?

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

8H The rock cycle

multiple choice

Science Interactive LTD. PO BOX 50764 LONDON NW6 9AT email: sales@science-interactive.co.uk

web: www.science-interactive.co.uk

1: What conditions turn chalk or limestone into marble ?

A

B Heat, time and pressure

C

D

2: Which process forms magma from sedimentary rock ?

A Erosion and melting

B

C

D

3: What type of rock is formed when a volcano erupts ?

A

B Igneous

C

D

4: Which type of rock is easily eroded by acid rain ?

A

B

C Marble

D

8H The rock cycle

literacy in science

Science Interactive LTD. PO BOX 50764 LONDON NW6 9AT email: sales@science-interactive.co.uk

web: www.science-interactive.co.uk

Answer all the questions below:

 Click mouse to reveal answer

1) Unscramble the following words:

tphamemoric

vnoicoa

iugneos

maagm

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

igneous rock
metamorphic
rocks

magma or lava
formed
different

cools and solidifies
heat and pressure
properties

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

Magma

Rock formed from cooled magma or lava

Igneous rock

Heat and pressure changing sedimentary or igneous rock

Metamorphic

Molten rock found inside the Earth's crust at over 1000°C

8H The rock cycle

literacy in science

Science Interactive LTD. PO BOX 50764 LONDON NW6 9AT email: sales@science-interactive.co.uk

web: www.science-interactive.co.uk

Answer all the questions below:

1) Unscramble the following words:

metamorphic

volcano

igneous

magma

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

igneous rock
metamorphic
rocks

magma or lava
formed
different

cools and solidifies
heat and pressure
properties

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

Magma

Molten rock found inside the Earth's crust at over 1000°C

Igneous rock

Rock formed from cooled magma or lava

Metamorphic

Heat and pressure changing sedimentary or igneous rock

8H The rock cycle

complete the sentence

Science Interactive LTD. PO BOX 50764 LONDON NW6 9AT email: sales@science-interactive.co.uk

web: www.science-interactive.co.uk

Place the right word or words to complete the sentence:

 [Click mouse to reveal answer](#)

common

cycle

meet

shale

pressure

lava

granite

sediments

smoother

- a) The rock _____ describes the continuous process of rock breakdown and formation.
- b) Basalt and _____ are good examples of igneous rock.
- c) Sedimentary rocks form from deposited _____ compacted over time.
- d) Heat and _____ can form metamorphic rocks from all rock types.
- e) At the end of a river, close to the sea, rocks are _____ and smaller because of erosion.
- f) Magma or _____ can cool and solidify to form igneous rock.
- g) Metamorphic slate used on roofs is formed from sedimentary _____.
- h) Where tectonic plates _____, buried rock can be uplifted to form mountains.
- i) Fossil are very _____ in sedimentary rock.

8H The rock cycle

complete the sentence

Science Interactive LTD. PO BOX 50764 LONDON NW6 9AT email: sales@science-interactive.co.uk

web: www.science-interactive.co.uk

Place the right word or words to complete the sentence:

common

cycle

meet

shale

pressure

lava

granite

sediments

smoother

- a) The rock cycle describes the continuous process of rock breakdown and formation.
- b) Basalt and granite are good examples of igneous rock.
- c) Sedimentary rocks form from deposited sediments compacted over time.
- d) Heat and pressure can form metamorphic rocks from all rock types.
- e) At the end of a river, close to the sea, rocks are smoother and smaller because of erosion.
- f) Magma or lava can cool and solidify to form igneous rock.
- g) Metamorphic slate used on roofs is formed from sedimentary shale.
- h) Where tectonic plates meet, buried rock can be uplifted to form mountains.
- i) Fossil are very common in sedimentary rock.