

Answer Key with Questions

Lesson Check: Effects of the Hydrosphere

1) Which of the following can happen when water interacts with rock formations? Select **all** that apply.

- climate changes
- a canyon forms
- sediment forms
- rain falls
- high tide occurs

Correct Answer

a canyon forms
sediment forms

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2) How does evaporation lead to precipitation?

Correct Answer

Answers may vary.

Explanation

Sample answer: Water evaporates from the Earth's surface. After forming a gas, the water vapor condenses around tiny particles of dust to form clouds. When enough water vapor is present, it falls to the earth in precipitation as rain, sleet, hail, or snow.

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3) Fill in the blanks using the available answer choices.

A _____ can be caused by winds and waves from a hurricane forcing
(Blank 1)
water onshore.

Blank 1 options

- floodplain
- storm surge

Correct Answer

storm surge

4) All of Earth's liquid and solid water make up the _____.

Correct Answer

Blank 1: hydrosphere

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5) Which is an example of a process that can slowly change the surface of Earth?

- earthquakes
- glaciers
- volcanoes
- landslides

Correct Answer

glaciers

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6) How does the hydrosphere interact with the geosphere?

Correct Answer

Answers may vary.

Explanation

Sample answer: The hydrosphere contains running water, such as rivers and oceans, that shape the rocks and soil of the geosphere as it moves.

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7) Anna goes to the same beach with her family every summer. This year she noticed that the beach was smaller than last year. What might have caused the beach to change over the years?

- A volcano erupted and lava flowed over the beach.
- The cold weather caused the beach to change.
- Wind and water eroded the beach.
- Oxygen in the air reacted with the sand.

Correct Answer

Wind and water eroded the beach.

8) Mountains are often found along the ocean coastline of the United States. Explain **two** ways that the hydrosphere affects the geosphere for this kind of coastline.



Correct Answer

Answers may vary.