

**1-Module Earth's Water System (Unit 3 Earth's Interactive Sy**

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1) Which evidence could indicate that a flood has happened in an area?

- ☐ A new mountain has formed.
- ☐ The sky is cloudy.
- ☐ A palm tree is charred black.
- ☐ Soil and rocks are on the road and sidewalks.

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

Due to erosion, glaciers can deposit \_\_\_\_\_ as glacial debris.  
(Blank 1)

Blank 1 options

- large boulders
- small particles
- many sizes of rocks

3) Can ocean waves change the rocks along a coastline?



- ☐ Yes. Pounding waves break rocks into smaller pieces.
- ☐ Yes. Pounding waves glue smaller rocks together.
- ☐ No. Waves are too weak to change rocks.
- ☐ Maybe. Scientists are not sure.

4) Rivers can deposit sediment in the bottom of a lake. Over time, it builds up to form a \_\_\_\_\_.

5) The surface of Earth is always changing and making new features. Which weather conditions have the greatest effect on the surface of Earth?

- ☐ fog and light rain
- ☐ cool temperatures and humidity
- ☐ warm ocean temperatures and humidity
- ☐ strong winds and heavy rains

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

About 97 percent of all water on Earth's surface is in the form of \_\_\_\_\_ water.  
(Blank 1)

Blank 1 options

- salt
- fresh

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7) Where is a hurricane most likely to occur?

- ☐ in the Great Plains
- ☐ in the Rocky Mountains
- ☐ in the desert southwest
- ☐ along the Atlantic Ocean

8) Choose the answer that **best** explains one reason why conservation of freshwater is important.

- ☐ Freshwater should be conserved because it is limited to Earth's groundwater.
- ☐ Freshwater should be conserved because it can be found in large quantities on Earth.
- ☐ Freshwater should be conserved because it is limited to Earth's oceans.
- ☐ Freshwater should be conserved because it is the only water that can be consumed by humans.

9) Less than 1 percent of Earth's freshwater is readily available for human and animal use. Where is the majority of the remaining freshwater located?

- ☐ in ice caps and glaciers
- ☐ in the atmosphere
- ☐ in the oceans
- ☐ in lakes and rivers

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

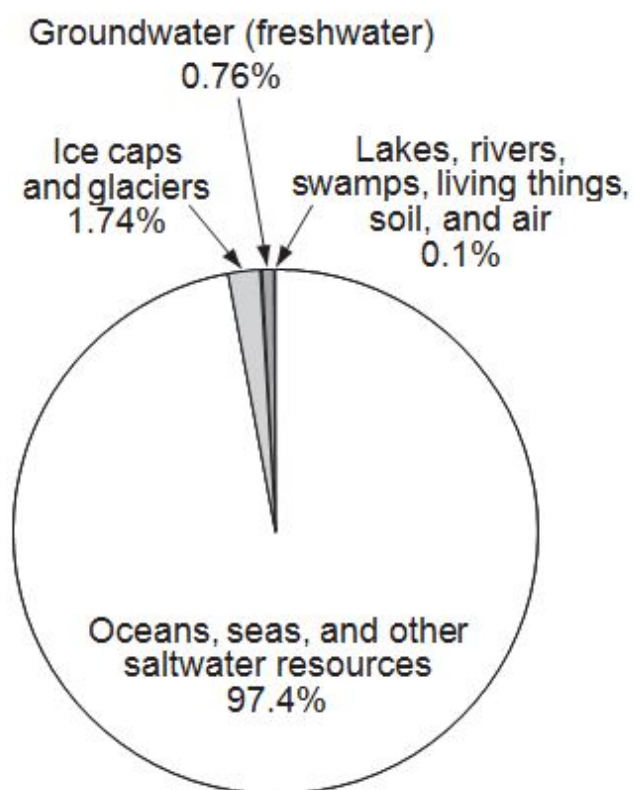
Lakes and rivers are part of the \_\_\_\_\_ .  
(Blank 1)

Blank 1 options

- hydrosphere
- geosphere

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11)

**Distribution of Water on Earth**

Based on the graph above, what can you conclude about the water on Earth?

- ☐ 97.4 percent of the water on Earth is saltwater
- ☐ 10 percent of the water on Earth is freshwater
- ☐ 55 percent of the water on Earth is saltwater
- ☐ 97.4 percent of the water on Earth is freshwater

**1-Module Earth's Water System (Unit 3 Earth's Interactive Sy****12) Freshwater Source Percentages**

| Source                    | Percentage (%) |
|---------------------------|----------------|
| Ground Ice and Permafrost | ?              |
| Lakes and Rivers          | 21.4           |
| Groundwater               | 3.8            |
| Other                     | 5.8            |

Based on the table, what can you conclude about the percentage of ground ice and permafrost?

- ☐ The percentage of ground ice and permafrost is the same as groundwater.
- ☐ The percentage of ground ice and permafrost is greater than any other source.
- ☐ The percentage of ground ice and permafrost is less than any other source.
- ☐ The percentage of ground ice and permafrost is the same as lakes and rivers.

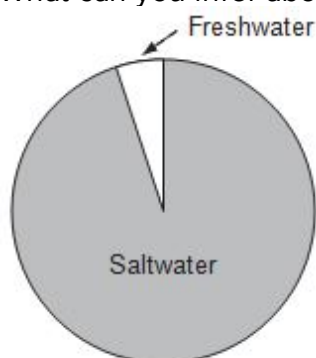
**13) Fill in the blanks using the available answer choices.**

Around 97 percent of the water on Earth's surface is \_\_\_\_\_ water.

(Blank 1)

Blank 1 options

- salt
- fresh

**14) What can you infer about water on Earth based on the pie graph?**

- ☐ Freshwater is abundant on Earth, while saltwater is limited.
- ☐ Saltwater is abundant on Earth, while freshwater is limited.
- ☐ There is an equal amount of saltwater and freshwater on Earth.
- ☐ Freshwater is located mostly in ice caps and glaciers.

**15) A reservoir is an artificial lake that is built to \_\_\_\_\_ water for a later time.**

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**16)** Identify the statement that best describes where Earth's freshwater can be found.

- ☐ Most of the freshwater is trapped in glaciers and ice caps.
- ☐ Earth's freshwater is spread out equally over ice, groundwater, and surface water.
- ☐ Most of the freshwater on Earth is found underground. The rest is stored as surface water.
- ☐ Earth's freshwater is found mostly in rivers and streams. Very little is found in glaciers or ice caps.

**17)** How are glaciers and oceans similar?

- ☐ Both contain salt water and are difficult for humans to use.
- ☐ Both contain freshwater and are difficult for humans to use.
- ☐ Oceans contain salt water and glaciers contain fresh water, but both both are difficult for humans to use.
- ☐ Oceans contain salt water and glaciers contain fresh water, and both both are easy for humans to use.

**18)** Why is it important to clean, conserve, and protect water?

- ☐ Water is expensive.
- ☐ Water is a living thing.
- ☐ Water can be frozen.
- ☐ Water is a limited resource.

**19)** A scientist is studying the effects of burning fossil fuels. One effect is acid rain. She is creating a plan to prevent further acid rain damage to the ecosystem. What should the scientist include in her plan? Select **all** that apply.

- ☐ Ask people to drive more instead of walking or biking.
- ☐ Develop vehicles that burn more gasoline per mile driven.
- ☐ Reduce the amount of public transportation available in the city.
- ☐ Develop vehicles that use renewable energy instead of fossil fuels.
- ☐ Encourage people to carpool instead of driving individual vehicles.

**20)** Which of the following is not one of the "three Rs" of conservation?

- ☐ recycle
- ☐ reduce
- ☐ refilter
- ☐ reuse

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**21)** Fill in the blanks using the available answer choices.

Most gases that lead to acid rain come from \_\_\_\_\_ .  
(Blank 1)

Blank 1 options

- natural sources
- burning fossil fuels

**22)** Which will most likely happen if lake water becomes polluted by humans?

- ☐ Animals in the lake will die.
- ☐ There will be more fish in the lake.
- ☐ The pollution will not hurt the plants or animals in the water.
- ☐ It will change the soil around the lake into pebbles.

**23)** It has been very dry in Miguel's city for the past several months. The local government has placed the city under a drought warning, which means people in the city should try to conserve as much water as possible.

What can Miguel do to help conserve water? Select **all** that apply.

- ☐ filter water before drinking it
- ☐ take short showers instead of baths
- ☐ brush his teeth at the same time each day
- ☐ turn off the water when he brushes his teeth
- ☐ wash his hands using hot water instead of cold water

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- 24)** Victoria went to a stream near her home and recorded these observations. What can you conclude from her observations?

A notebook with four entries, each preceded by a radio button:

- ☐ Water Temperature  
90° degrees
- ☐ Water Speed  
Still
- ☐ Number of Insects  
Few
- ☐ Water Quality  
Strange odor

- ☐ It is clean.
  - ☐ It is suitable to drink.
  - ☐ It is polluted.
  - ☐ It has lots of fish.
- 25)** Give an example of how the hydrosphere is connected to the biosphere and what you can do to help conserve the hydrosphere.

- 26)** Which of the following is one way humans pollute the hydrosphere?

- ☐ fishing
- ☐ farming and causing soil runoff
- ☐ going on a paddle boat
- ☐ cleaning up an oil spill

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**27)** Camila notices that people throw trash on the ground around the pond by her house. The ducks and fish that live in the pond can be harmed by this trash. Camila wants to come up with a plan to clean up the pond and keep it clean.

Which of these should be part of Camila's plan? Select **all** that apply.

- ☐ Put up signs that ask people not to litter.
- ☐ Move the ducks and fish to a new pond.
- ☐ Ask more people to come fish in the pond.
- ☐ Use nets to get the existing trash out of the water.
- ☐ Put trash cans around the pond for people to use.

**28)** 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

**29)** How does evaporation lead to precipitation?

**30)** Fill in the blanks using the available answer choices.

A \_\_\_\_\_ can be caused by winds and waves from a hurricane forcing water onshore.

Blank 1 options

- floodplain
- storm surge

**31)** All of Earth's liquid and solid water make up the \_\_\_\_\_.

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

- ☐ earthquakes
- ☐ glaciers
- ☐ volcanoes
- ☐ landslides

**33)** How does the hydrosphere interact with the geosphere?

**34)** 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.

**35)** 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.

**36)** Where does the water go when water evaporates from a puddle on the street?

- ☐ It goes into a nearby river or stream.
- ☐ It sinks into the street.
- ☐ It rises into the atmosphere.
- ☐ It goes into outer space.

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**37)** Fill in the blanks using the available answer choices.

About 97 percent of all the water on Earth is in the form of \_\_\_\_\_ .  
(Blank 1)

Blank 1 options

- salt water
- freshwater

**38)** Why is groundwater important for living things to be able to use?

**39)** Which best explains why it is important for humans to conserve freshwater?

- ☐ Earth's water supply is shrinking.
- ☐ Earth's water supply is growing larger.
- ☐ Once we use all of Earth's freshwater, it is gone forever.
- ☐ Only a small fraction of Earth's water is freshwater, and everyone needs it.

**40)** Which are sources of freshwater. Select **all** that apply.

- ☐ rivers
- ☐ oceans
- ☐ aquifers
- ☐ reservoirs

**41)** How is building a dam one way to store water?

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**42)** Fill in the blanks using the available answer choices.

\_\_\_\_\_ water can harm living things.  
(Blank 1)

Blank 1 options

- Polluted
- Clean

**43)** All water on Earth is recycled through \_\_\_\_\_.

- ☐ the water cycle
- ☐ pockets of nitrogen
- ☐ exhaled gas
- ☐ dead organic material

**44)** Fill in the blanks using the available answer choices.

The shape of different landforms is often changed by \_\_\_\_\_ water.  
(Blank 1)

Blank 1 options

- flowing
- standing

**45)** List two ways to conserve water. Explain why it is helpful for the environment.

**46)** \_\_\_\_\_ rain can be caused by burning fuels that mix with water in the clouds.

**47)** Fill in the blanks using the available answer choices.

By definition a storm surge can occur when a \_\_\_\_\_ causes large waves in the ocean.  
(Blank 1)

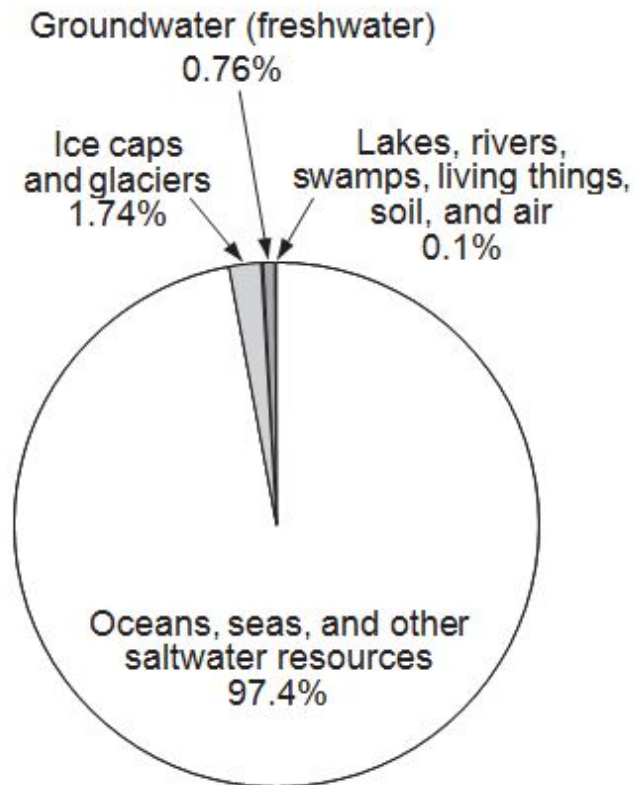
Blank 1 options

- hurricane
- tornado

## 1-Module Earth's Water System (Unit 3 Earth's Interactive Sy

- 48) The graph shows the percentages of the total water on Earth that are stored in different sources.

### Distribution of Water on Earth



- a. Write a claim about how the amount of **freshwater** on Earth relates to the total amount of water on Earth.

- b. Explain how evidence in the graph supports your claim in part (a).