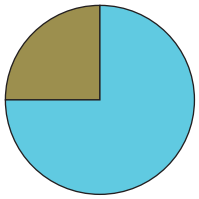
Unit 4 Evaluation

Name: _____ Class: _____ Date: _____

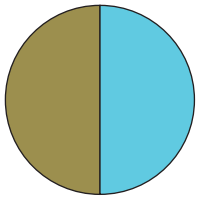
Mark the correct answers with a ✔.

1 The water on our planet is distributed in the hydrosphere. Which of the following pie charts represents the distribution of water and land on earth?

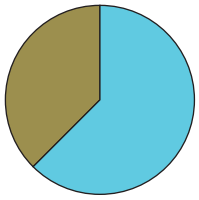
A.



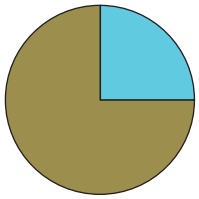
B.

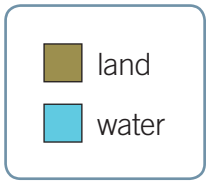


C.



D.





2 Salt water has more dissolved minerals than fresh water, and there is more of it on the planet. In which state is salt water?

A. Plasma.

B. Solid.

C. Liquid.

D. Gas.

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3 Groundwater represents about 20 percent of the fresh water on the planet. How does groundwater accumulate?

A. By infiltration.

B. By evaporation.

C. By transpiration.

D. By condensation.

4 What are large bodies of water that separate the continents?

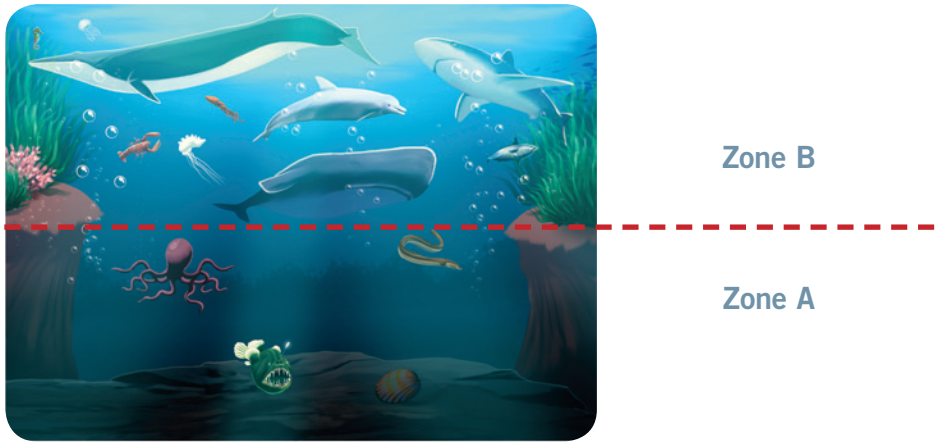
A. Seas.

B. Lakes.

C. Glaciers.

D. Oceans.

Look at the image and answer questions 5–7.



5 What is the main difference between zone A and zone B?

A. Zone A receives very little light, while zone B receives a lot of light.

B. Zone A receives a lot of light, while zone B receives very little light.

C. The algae in zone A can photosynthesize, while those in zone B cannot.

D. Many animals live in zone A, while few live in zone B.

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6 What is the name of zone A and at what depth is it located?

A. It's called the photic zone, and it is located 200 meters below the surface.

B. It's called the aphotic zone, and it is located 200 meters below the surface.

C. It's called the photic zone, and it is located from the surface to 200 meters deep.

D. It's called the aphotic zone, and it is located from the surface to 200 meters deep.

7 In general, what are the characteristics of the species that inhabit zone A?

A. They have adapted to little light and low pressure.

B. They have adapted to high temperatures and high pressure.

C. They have adapted to low temperatures and high pressure.

D. They have adapted to a lot of light and high pressure.

8 What is a characteristic of most lakes?

A. They contain salt water.

B. They contain fresh water.

C. They contain deep water.

D. They contain shallow water.

9 What is the Mariana Trench?

A. The deepest part of the ocean.

B. A trench where no living things exist.

C. The shallowest part of the ocean.

D. The widest part of the ocean.

10 In which zone of a lake can plants perform photosynthesis?

A. The photic zone.

B. The littoral zone.

C. The profundal zone.

D. The limnetic zone.

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11 How are lakes and oceans different?

A. Lakes are freshwater reserves, and oceans contain a lot of dissolved salt minerals.

B. Lakes are saltwater reserves, and oceans contain few dissolved salt minerals.

C. Lakes are freshwater reserves, and oceans contain few dissolved salt minerals.

D. Lakes are saltwater reserves, and oceans contain a lot of dissolved salt minerals.

12 What is a principal difference between fresh water and salt water?

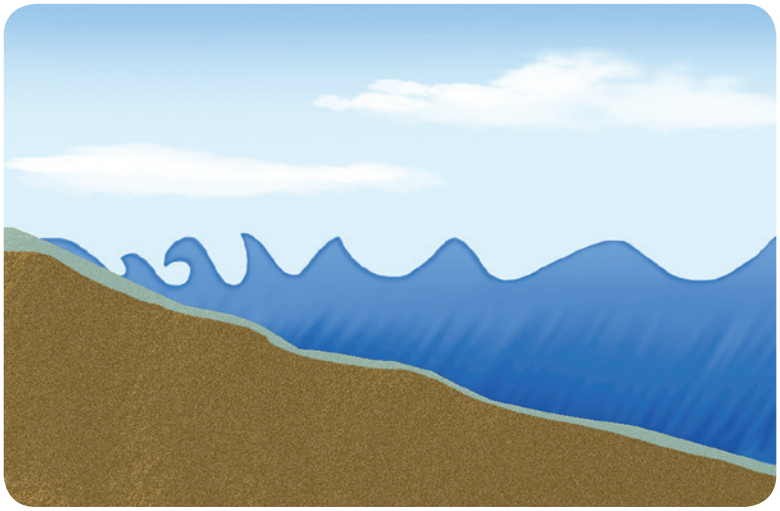
A. Their physical states.

B. Where they are located.

C. The diversity of animals in each.

D. The amount of each found on the planet.

13 Look at the image. What can you say about the formation of waves?



A. Waves change shape when they reach the shore.

B. Waves are formed by wind coming from the shore.

C. Waves are formed by the wind that blows over the ocean.

D. Waves occur because there is too much water in the ocean.

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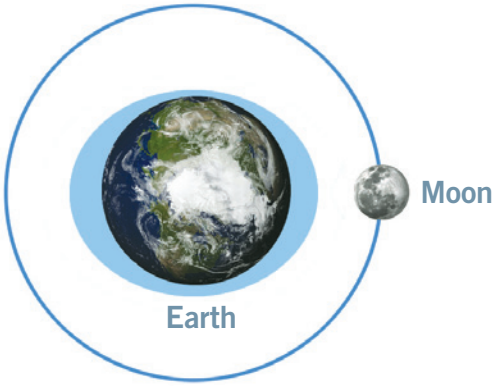
14 Which of the following statements is correct?



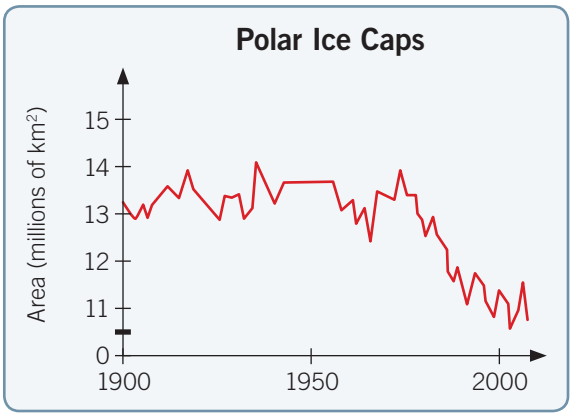
A. The tides occur because water is attracted to the moon.

B. High tide occurs when the amount of water on the shore is less.

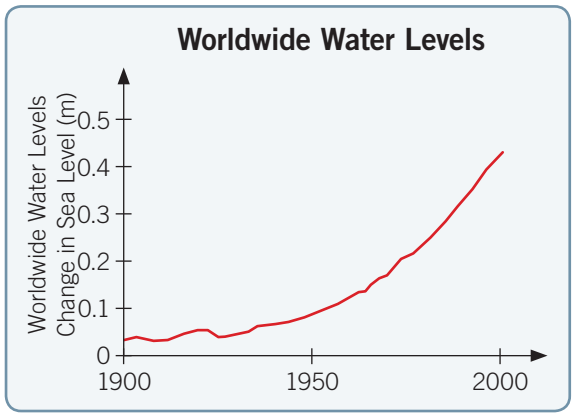
C. High tide occurs when water moves to low tide zones.

D. Low tide occurs when water moves to high tide zones.

Look at the graphs and answer questions 15 and 16.



Graph 1



Graph 2

15 What does graph 1 show?

A. The area of the polar ice caps.

B. The rise in sea level all over the planet.

C. The increase in the area of the polar ice caps.

D. The decrease in the area of the polar ice caps.

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16 What is the relationship between graph 1 and graph 2?

A. As the area of the polar ice caps decreases, the sea level rises.

B. As the area of the polar ice caps decreases, the sea level does not change.

C. As the area of the polar ice caps decreases, the sea level becomes lower.

D. As the area of the polar ice caps decreases, the amount of water in the ocean doubles.

17 Why do you think there is more diversity of animals in the photic zone?

I. Adequate pressure.

II. Very little light.

III. Warm temperature.

A. Only I.

B. Only II.

C. I and III.

D. I, II and III.

18 Which statement is true?

A. All lakes contain fresh water.

B. Objects float more easily in salt water.

C. Objects do not float in fresh water.

D. The Red Sea is part of the Pacific Ocean.

19 What do you think will happen to the aquatic plant in the image?

A. The plant will grow.

B. The plant will not grow.

C. The plant will be able to feed.

D. The plant will reproduce.

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20 What human activities cause water pollution?

A. Solar energy production and domestic, livestock and forestry activities.

B. Solar energy production and mining, livestock and agricultural activities.

C. Hydroelectric energy production and domestic, industrial and agricultural activities.

D. Domestic, industrial, livestock and agricultural activities.

21 Which of the following activities help conserve water?

I.

II.

III.

A. Only I.

B. Only II.

C. Only III.

D. I and II.

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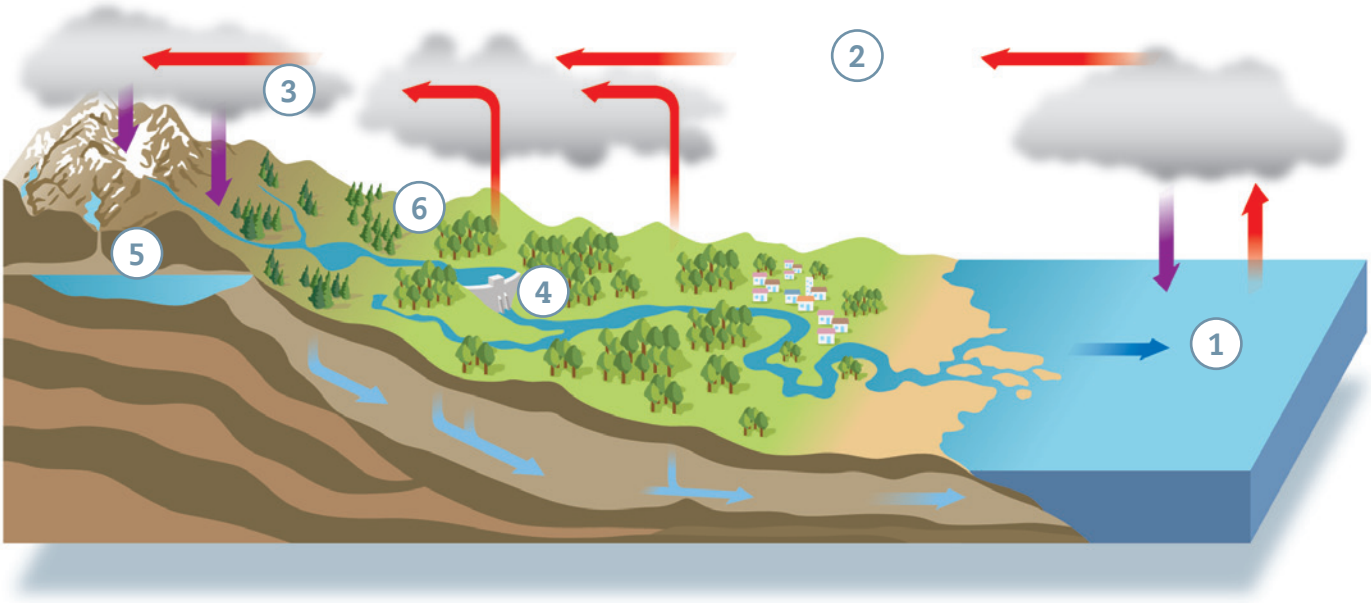
Look at the image and answer questions 22 and 23.



22 Which stage of the water cycle corresponds to 5?

A. Evaporation.

B. Condensation.

C. Infiltration.

D. Transpiration.

23 Which number corresponds to the stage of surface runoff?

A. 1.

B. 2.

C. 3.

D. 4.

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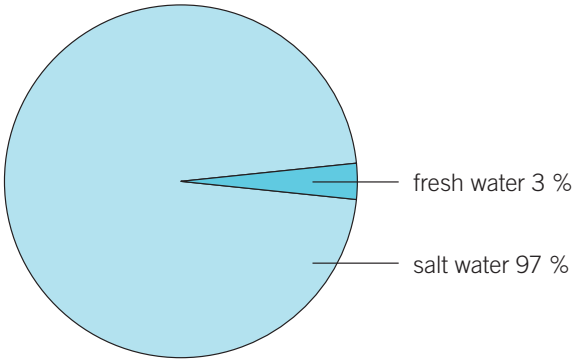
24 Look at the chart. Why is taking care of fresh water so important?

Total Amount of Water on Earth



A. Because the amount of fresh water is the same as the amount of salt water.

B. Because the amount of salt water is the same as the amount of fresh water.

C. Because there is more fresh water than salt water.

D. Because there is less fresh water than salt water.

25 Which statement is false?

A. Forty percent of your body consists of water.

B. Water lubricates our joints and helps us move.

C. Vital chemical reactions in the body require water.

D. Water helps maintain the shape and structure of plants.

26 How deep is the deepest part of the ocean?

A. 100 meters.

B. 1,000 meters.

C. 1,100 meters.

D. 11,000 meters.

27 Which cannot be found at the bottom of the ocean?

A. Oceanic ridges.

B. Islands.

C. Volcanoes.

D. Trenches.

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28 Which statement is true?

A. Most of the water on the planet is fresh water.

B. Most salt water is found in the polar ice caps.

C. Most fresh water is frozen.

D. Only three percent of the water on earth is salt water.

29 Which is not a zone of a lake?

A. Limnetic zone.

B. Profundal zone.

C. Diversity zone.

D. Littoral zone.

30 Which is a characteristic of the aphotic zone of a lake?

A. The pressure is higher there.

B. There is more light.

C. The algae can perform photosynthesis.

D. There is a greater diversity of animals.

31 Life could not exist without water. Why is this statement correct?

I. Because water is a vital nutrient.

II. Because water allows us to do aquatic sports.

III. Because water allows the development of diverse species of living things.

A. Only I.

B. Only II.

C. Only III.

D. I and III.

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32 Describe the components of the hydrosphere.

Component	Description
Rivers	
Lakes	
Oceans	
Glaciers	

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Test B

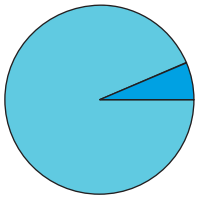
Unit 4 Evaluation

Name: _____ Class: _____ Date: _____

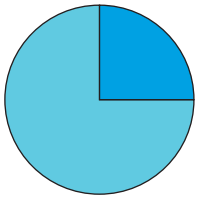
Mark the correct answers with a ✔.

1 Water is classified into two general groups: fresh water and salt water. Which of the following pie charts represents their distribution on earth?

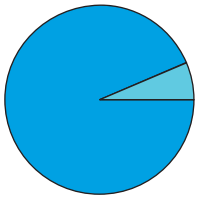
A.



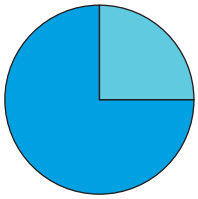
B.

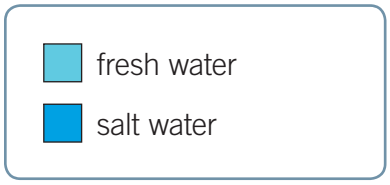


C.



D.





2 Which part of the hydrosphere consists of salt water?

A. Clouds.

B. Glaciers.

C. Oceans.

D. Polar ice caps.

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3 In which process does water vapor in the atmosphere get colder and form small drops of water?

A. Infiltration.

B. Precipitation.

C. Transpiration.

D. Condensation.

4 Which sentence describes the hydrosphere?

A. All the water distributed around the earth.

B. The amount of salt water in the oceans.

C. All the water in rivers, oceans and lakes.

D. The amount of fresh water in the polar ice caps.

5 In the deep areas of the ocean, the pressure is very high and it is completely dark. What zone is this?

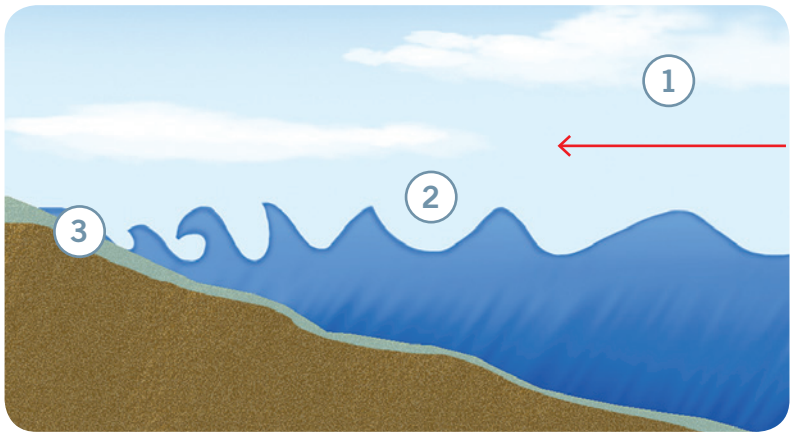
A. The photic zone.

B. The aphotic zone.

C. The deep-sea trenches.

D. The ocean ridges.

6 The image shows how a wave is formed. Which statement is correct about stage 3?



A. Waves break on the shore.

B. Waves start to be formed.

C. The waves continue up the shore.

D. Waves change their shape based on temperature.

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7 What are movements or swells on the surface of the ocean?

A. Waves.

B. Currents.

C. Low tides.

D. High tides.

8 What is an ocean current?

A. It is a flow of electric charge under the ocean.

B. It is like a river under the ocean.

C. It is a warm body of water that moves north to south.

D. It is a cold body of water that moves north to south.

9 Which of the following statements describe the ocean?

I. It covers a large amount of the earth's surface.

II. The bottom of the ocean is a flat plain.

III. Deep-sea trenches are the deepest parts of the ocean.

A. Only I.

B. I and II.

C. I and III.

D. II and III.

10 Which variables are used to describe the zones of the ocean?

A. Light, surface area and pressure.

B. Light, temperature and heat.

C. Light, temperature and pressure.

D. Light, temperature and surface area.

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11 How are the littoral zone and the limnetic zone different?

A. The littoral zone is near the shore, and the limnetic zone is where light still reaches.

B. The littoral zone is near the shore, and the limnetic zone is where light does not reach.

C. The littoral zone is near the shore, and the limnetic zone is where decomposition occurs.

D. The littoral zone is near the shore, and the limnetic zone is where land and water meet.

12 What makes an ocean different from a lake?

A. Oceans are large bodies of cold water.

B. Oceans contain fresh water.

C. Oceans are bodies of warm water.

D. Oceans contain salt water.

13 Which is a difference between fresh water and salt water?

A. There is more fresh water on the earth.

B. All solid water is salt water.

C. Salt water has more dissolved minerals.

D. More things float in fresh water.

14 Why do most aquatic animals live in the photic zone?

A. Because there is more light and pressure.

B. Because there is less light and more pressure.

C. Because there is less light and pressure.

D. Because there is more light and less pressure.

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Look at the table and answer questions 15 and 16.

Table 1

San Diego Beach	
10/28/2012	
Time hh:mm	Height in Meters
4:20	0.39 L
10:16	1.37 H
16:18	0.34 L
22:38	1.57 H

L: low tide
H: high tide

Table 2

San Diego Beach	
10/29/2012	
Time hh:mm	Height in Meters
5:01	0.35 L
10:53	1.37 H
16:49	0.36 L
23:11	1.61 H

15 What do the graphs show?

A. Waves

B. Tides.

C. Tsunamis.

D. Currents.

16 When is it highest?

A. At 5:01 on 10/29/2012.

B. At 16:18 on 10/28/2012.

C. At 22:38 on 10/29/2012.

D. At 23:11 on 10/29/2012.

17 What causes tides?

A. Attraction to the sun.

B. Attraction to the moon.

C. The earth's orbit.

D. The earth's axis of rotation.

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18 What are the characteristics of the animals that inhabit the aphotic zone?

A. They have adapted to high temperatures and high pressure.

B. They have adapted to low temperatures and high pressure.

C. They have adapted to high temperatures and low pressure.

D. They have adapted to low temperatures and low pressure.

19 Many objects can float in the Dead Sea and living things do not develop well there. What causes these effects?

A. The large amount of salt contained in the lake.

B. The large amount of ice contained in the lake.

C. The large amount of iron contained in the lake.

D. The large amount of waste contained in the lake.

20 What is the most prominent mineral in salt water?

A. Sodium.

B. Potassium chloride.

C. Calcium.

D. Sodium chloride.

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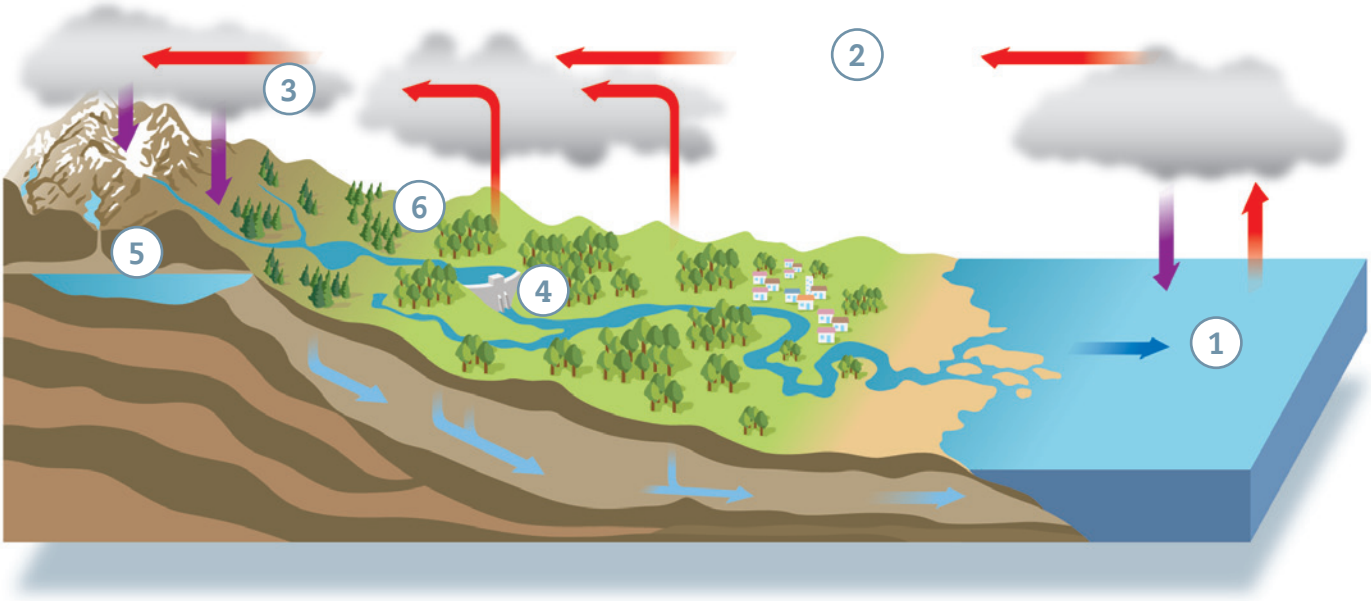
Look at the image and answer questions 21 and 22.



21 Which stages of the water cycle are shown by the red arrows?

A. Evaporation and precipitation.

B. Transpiration and evaporation.

C. Transpiration and condensation.

D. Condensation and precipitation.

22 Which stage of the water cycle corresponds to 4?

A. Surface runoff.

B. Infiltration.

C. Condensation.

D. Evaporation.

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23 Which image shows an action that does not pollute or waste water?

A.

B.

C.

D.

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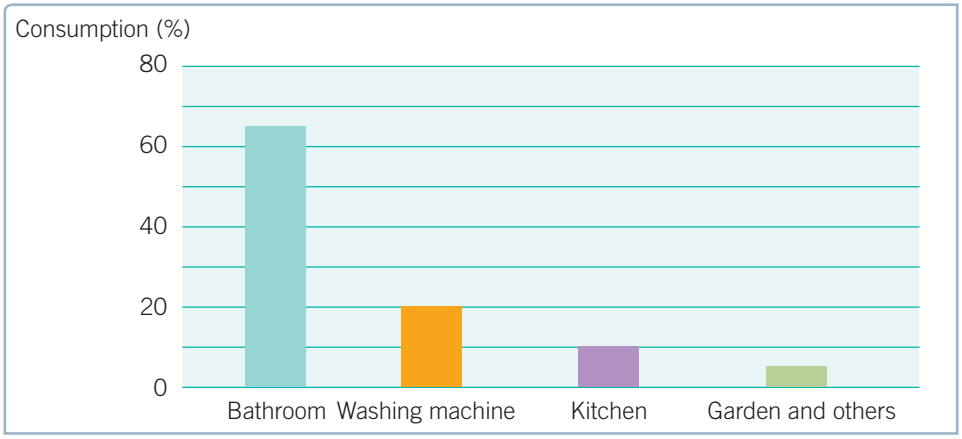
Look at the graph and answer questions 24 and 25.



24 Which measure can you adopt at home in order to use less water?

A. Take longer showers.

B. Don't fix faucets that drip.

C. Flush paper down the toilet.

D. Turn off water when brushing your teeth.

25 The graph shows how water is used in a home. What should the title be?

A. Water Consumption in the Home

B. Water Consumption in the City

C. Energy Consumption in the Home

D. Energy Consumption in the City

26 Why is it necessary to avoid water pollution?

I. Pollution can make people sick.

II. Pollution affects living things.

III. Pollution prevents many sports from being played.

A. Only I.

B. Only II.

C. Only III.

D. I and II.

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27 A farmer cultivates different plants. Every year he uses artificial pesticides and fertilizers to prevent insect infestations and to help his plants grow. What could you tell the farmer about protecting water?

A. He should not use artificial pesticides and fertilizers because they pollute water.

B. He should continue to use artificial pesticides and fertilizers because they do not affect water.

C. He should not use artificial pesticides and fertilizers because they contaminate the crops.

D. He should continue to use artificial pesticides and fertilizers because they help purify water.

28 What happens if people do not have access to clean water?

A. They save water.

B. They generate energy.

C. They increase their water consumption.

D. They can get sick.

29 Which of the following statements is correct?

I. Blood consists mostly of water.

II. Water allows the development of diverse species of living things.

III. Many chemical reactions in the body require water.

A. Only I.

B. Only II.

C. Only III.

D. I, II and III.

30 Which statement is false?

A. There is more salt water than fresh water on the planet.

B. Most of the fresh water on the planet is in liquid form.

C. Not all lakes contain fresh water.

D. There is greater diversity of life in the photic zone of oceans and lakes.

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31 In many places, people do not have access to water. What phenomena make this situation worse?

I. Droughts.

II. Floods.

III. Pollution.

A. Only I.

B. Only II.

C. I and III.

D. II and III.

32 Describe the stages of the water cycle.

Process	Description
Evaporation	
Condensation	
Precipitation	
Surface Runoff	
Infiltration	
Transpiration	

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