

Freshwater, Water Cycle, and Water Quality sample questions

Name: _____

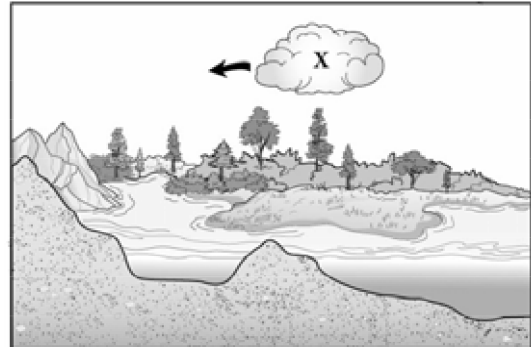
Date: _____

1. Which combination of processes from the water cycle is *most likely* to cause flooding?
- A. low runoff, low evaporation, high transpiration
 - B. high runoff, low evaporation, low precipitation
 - C. low runoff, high infiltration, high condensation
 - D. high runoff, low infiltration, high precipitation




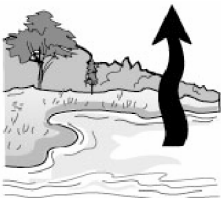
2. Where is *most* of Earth's water located?
- A. glaciers
 - B. lakes
 - C. oceans
 - D. rivers

3. Which of the following processes is responsible for changing liquid water into water vapor?
- A. photosynthesis
 - B. condensation
 - C. evaporation
 - D. precipitation

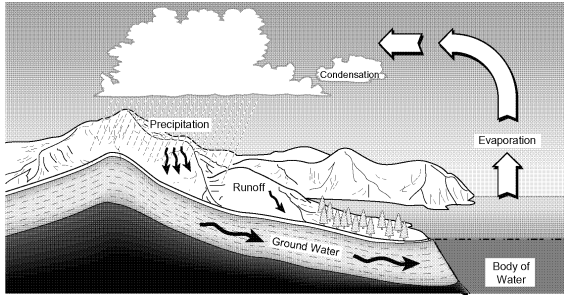
4. A diagram of the water cycle is shown below.



Which stage of the water cycle follows X in the diagram?

- A. 
- B. 
- C. 
- D. 

5. The water cycle is the continuous movement of water between the Earth's surface and its atmosphere. An illustration of the water cycle is shown below.



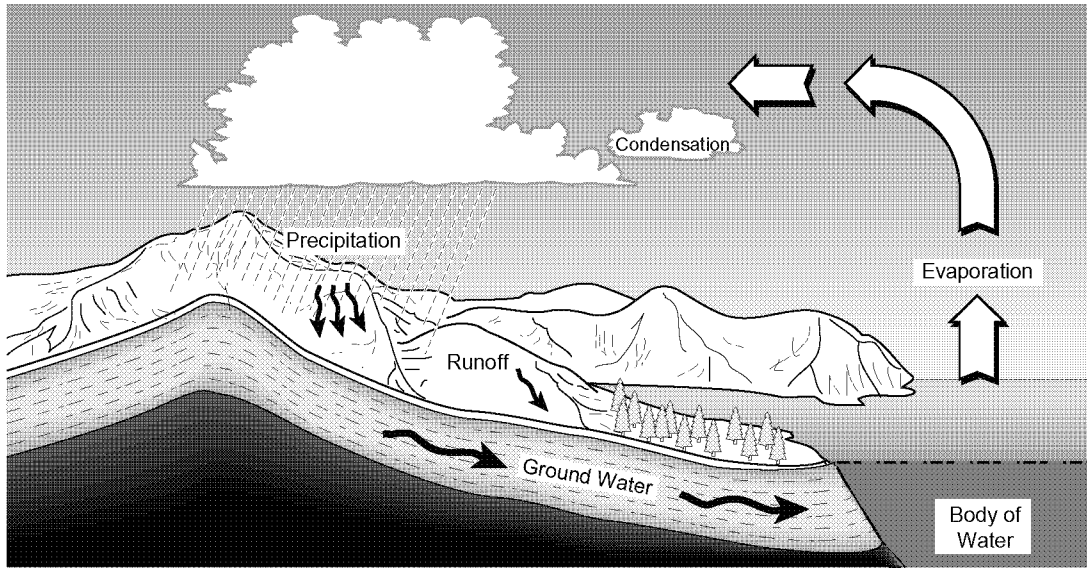
The following processes play important roles in the water cycle:

- **evaporation**—the changing of a liquid to a gas;
- **condensation**—the changing of a gas to a liquid; and
- **precipitation**—the process of depositing water in liquid or solid form.

What type of energy drives the water cycle?

- A. wind B. mechanical
C. solar D. chemical

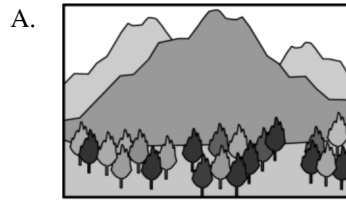
The water cycle is the continuous movement of water between the Earth's surface and its atmosphere. An illustration of the water cycle is shown below.



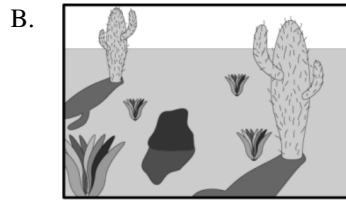
6. What is the main cause of water evaporation from the ocean?
- A. Wind and wave action along the shore
 - B. Currents in the ocean
 - C. Heat energy from the ocean floor
 - D. Heat energy from the Sun

7. Over 6 billion people on Earth use water every day, yet Earth's water supply remains relatively constant. This is because _____.
- A. the sea level is rising
 - B. water exists in three phases on Earth
 - C. water is constantly recycled by the hydrologic cycle
 - D. global warming melts ice to replace water that is used

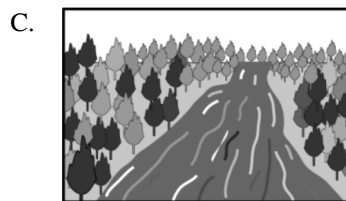
8. Which picture *best* illustrates a part of the hydrosphere?



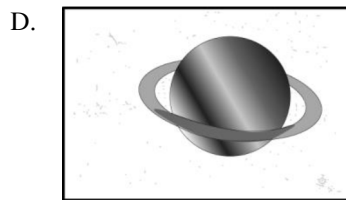
Mountain



Desert

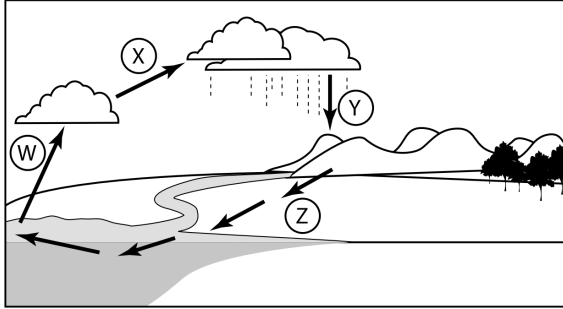


River



Outer Space

9. Use the picture below to answer the question.



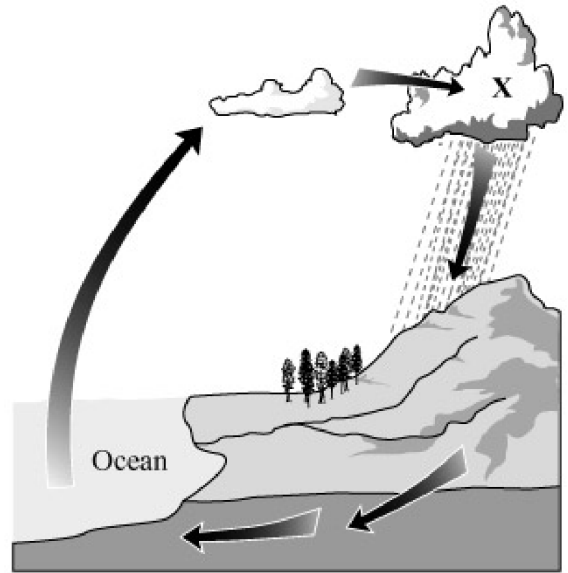
What part of the water cycle is represented by arrow Y?

- A. evaporation
- B. precipitation
- C. condensation
- D. runoff

10. Which habitat on Earth would *probably* add the greatest amount of water to the water cycle through evaporation?

- A. cold lake
- B. desert sand
- C. warm ocean
- D. mountain rock

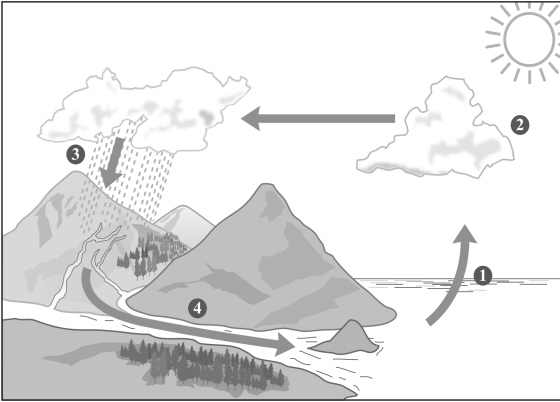
11. The picture below shows the water cycle.



Water on Earth cycles in different forms and in different locations. Which process occurs at the location labeled X on this diagram of the water cycle?

- A. condensation
- B. evaporation
- C. runoff
- D. transpiration

12. The diagram below shows four stages of the water cycle.



Which change is occurring at stage 1 in the diagram?

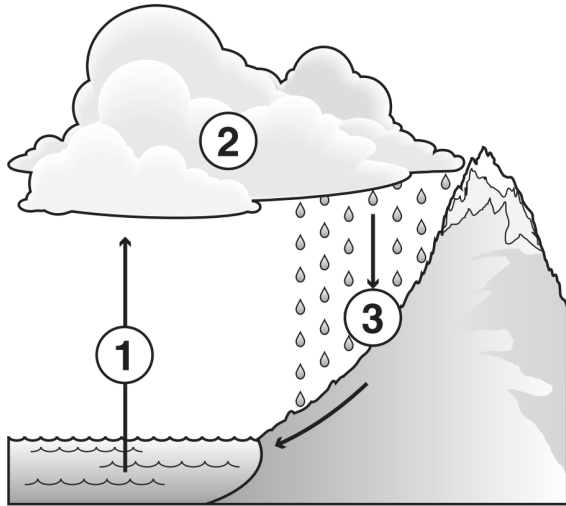
- A. Water is changing from a gas to a solid.
 - B. Water is changing from a liquid to a gas.
 - C. Water is changing from a liquid to a solid.
 - D. Water is changing from a solid to a liquid.
13. During one growing season, 5000 square meters of corn plants transpires approximately 1.85 million liters of water. The water lost from the plants via transpiration goes directly to which of the following?
- A. insects
 - B. the soil
 - C. streams
 - D. the atmosphere

14. A student set up a terrarium, watered the soil, and covered the terrarium tightly with a lid. The next day, the student observed water droplets on the inside of the lid.

The droplets provide evidence that which of the following steps of the water cycle had occurred in the terrarium?

- A. runoff and evaporation
 - B. precipitation and runoff
 - C. evaporation and condensation
 - D. condensation and precipitation
15. Glaciers cover about 10% of the total land area on Earth. The role of glaciers in the water cycle is to
- A. filter salt water
 - B. store fresh water
 - C. move liquid water
 - D. precipitate solid water

16. Use the drawing of the water cycle below for the following question(s)



Which terms match the number order of the processes shown in the water cycle?

- A. 1. vaporation
2. precipitation
3. condensation
- B. 1. condensation
2. evaporation
3. precipitation
- C. 1. precipitation
2. condensation
3. evaporation
- D. 1. evaporation
2. condensation
3. precipitation

17. Which statement *best* describes runoff?

- A. Water vapor cools off and changes into water droplets.
- B. Water in the form of rain, snow, sleet, or hail falls from clouds.
- C. Precipitation that falls to Earth ultimately flows over land into lakes, streams, and rivers.
- D. Water from the oceans and the surface of the earth changes into water vapor.

18. Where is *most* freshwater located on Earth?

- A. polar ice caps B. groundwater
- C. lakes D. rivers

19. Which describes the hydrosphere?

- A. Most of it contains salt.
- B. It is made of only freshwater.
- C. All of it is located above ground.
- D. It is formed by a climate change.

20. How can the atmosphere be considered part of the hydrosphere?
- A. It is a source of water.
 - B. It blocks ultraviolet rays from the sun.
 - C. It contains the oxygen necessary for life on Earth.
 - D. It traps pollutants that would otherwise harm the earth.

21. The table below shows the pH and reaction to litmus of four body fluids.

Body Fluid	pH	red litmus	blue litmus
Blood	7.4	turns blue	no change
Bile	8.2	turns blue	no change
Saliva	6.8	no change	turns red
Gastric Juice	1.7	no change	turns red

These data indicate that gastric juice is

- A. very acidic.
 - B. very basic.
 - C. positively charged.
 - D. negatively charged.
22. Of four different laboratory solutions, the solution with the *highest* acidity has a pH of
- A. 11.
 - B. 7.
 - C. 5.
 - D. 3.

23. The table below shows the pH values of samples of substances.

Substance	pH
Rainwater	5.8
Drain cleaner	14.0
Distilled water	7.0
Soda water	3.0

According to the table, which of these substances is basic?

- A. rainwater
 - B. drain cleaner
 - C. distilled water
 - D. soda water
24. A student was assigned to take water samples from a lake near his home. He measured the pH of one of the water samples to be 6.0. Which of the following *best* describes this sample of water?
- A. highly acidic
 - B. slightly acidic
 - C. highly basic
 - D. slightly basic
25. Runoff from farms that use fertilizers is entering a small lake. This will *most directly* affect the lake by causing
- A. the lake to dry up.
 - B. algae to grow in the lake.
 - C. the lake to become deeper.
 - D. water in the lake to become solid.

26. Three-fourths of Earth's surface is covered by water.

Which of these describes nearly 97% of the water on Earth's surface?

- A. Ice
- B. Salt water
- C. Fresh water
- D. Ground water

27. Where is most of Earth's freshwater?

- A. In the ground
- B. In the atmosphere
- C. In lakes and rivers
- D. In glaciers and icecaps

28. Which *best* determines the health of a lake used as a source of freshwater?

- A. its depth and width
- B. its temperature and pH
- C. its location and depth
- D. its temperature and depth

29. Which will *most likely* result if hot water is continually dumped into a stream?

- A. Nitrate levels in the stream will increase.
- B. Dissolved-oxygen levels in the stream will decrease.
- C. Phosphorus levels in the stream will decrease.

30. Which of the following contains **salt water**?

- A. oceans
- B. raindrops
- C. groundwater
- D. polar icecaps

Freshwater, Water Cycle, and Water Quality sample questions

11/7/2024

1.		15.	
Answer:	D	Answer:	B
Points:	1	Points:	1
2.		16.	
Answer:	C	Answer:	D
Points:	1	Points:	1
3.		17.	
Answer:	C	Answer:	C
Points:	1	Points:	1
4.		18.	
Answer:	A	Answer:	A
Points:	1	Points:	1
5.		19.	
Answer:	C	Answer:	A
Points:	1	Points:	1
6.		20.	
Answer:	D	Answer:	A
Points:	1	Points:	1
7.		21.	
Answer:	C	Answer:	A
Points:	1	Points:	1
8.		22.	
Answer:	C	Answer:	D
Points:	1	Points:	1
9.		23.	
Answer:	B	Answer:	B
Points:	1	Points:	1
10.		24.	
Answer:	C	Answer:	B
Points:	1	Points:	1
11.		25.	
Answer:	A	Answer:	B
Points:	1	Points:	1
12.		26.	
Answer:	B	Answer:	B
Points:	1	Points:	1
13.		27.	
Answer:	D	Answer:	D
Points:	1	Points:	1
14.		28.	
Answer:	C	Answer:	B
Points:	1	Points:	1

29.
Answer: B
Points: 1

30.
Answer: A
Points: 1