

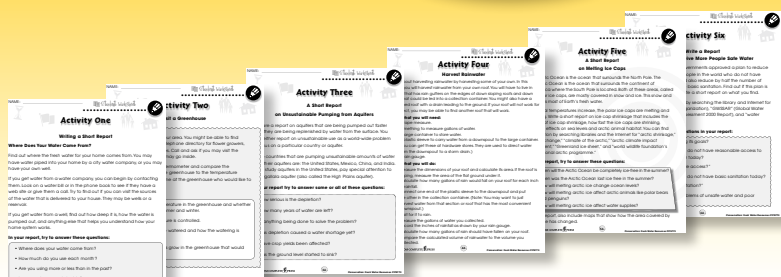
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## What Is Fresh Water?

1. Circle the word **TRUE** if the statement is TRUE or Circle the word **FALSE** if it is FALSE.

- a) Ocean water is called fresh water if it is not polluted.  
**TRUE      FALSE**
- b) Most of Earth's water is in rivers.  
**TRUE      FALSE**
- c) Snow is a form of precipitation.  
**TRUE      FALSE**
- d) Water can be a solid, a liquid, or a gas.  
**TRUE      FALSE**
- e) Animals cannot live without water.  
**TRUE      FALSE**

2. Complete each sentence with a word from the list. Use a dictionary to help you.

evaporation    condense    ice    melt    vapor

- a) Solid water is called \_\_\_\_\_.
- b) Water in the atmosphere is called water \_\_\_\_\_.
- c) When water \_\_\_\_\_, it changes from solid to liquid.
- d) Dew forms on the grass when water in the air \_\_\_\_\_.
- e) \_\_\_\_\_ moves water from the ocean to the atmosphere.

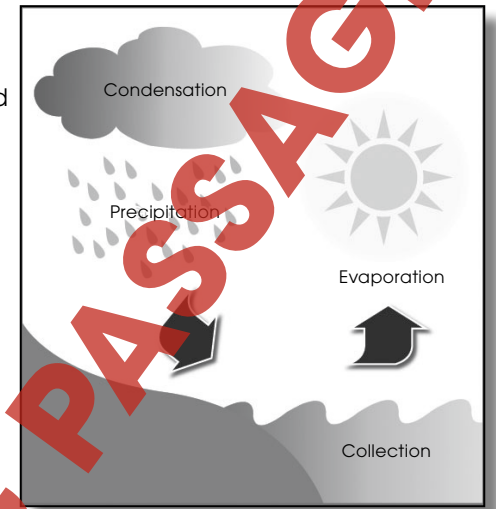


## What Is Fresh Water?

**W**hen we say water is **fresh**, it just means it is not salty, like water in the ocean. When used to describe water, the word fresh has a different meaning than when it is used to describe vegetables. Fresh vegetables are not rotten, but fresh water is not salty. So water could be fresh but still not fit to drink.

Water is all around you. It is on Earth's surface, deep in the Earth, in the air, and inside you. Like most living things, you are mostly water.

People have some very important needs that can only be satisfied by fresh water. We must have fresh water to drink because our bodies need it to carry out all the reactions and processes in every one of our cells. Only fresh water can be used to water crops and other plants. Many fish and other forms of life can only live in fresh water.



A Water Cycle

Describe two things that fresh water is used for. Be sure only fresh water and not salt water or other liquids could be used for these purposes.



## What Is Fresh Water?

1. Put a check mark (✓) next to the answer that is most correct.

a) Which of these is **sure** to contain fresh water?

- A a lake
- B a river
- C a bay
- D an ocean

b) Fresh water is water that does not contain:

- A ice
- B salt
- C mud
- D pollution

c) During which part of the water cycle does water change from gas to liquid?

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

2. The water cycle does not have a beginning or an end; it just repeats again and again. That is why it is called a cycle. Begin with the part of the water cycle called "runoff" and show three other steps in the cycle in the order they occur.

1. runoff
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_

## What Is Fresh Water?

3. Answer the questions in complete sentences. Fresh water is present on Earth in each of the three states of matter. Name each of the three states in which fresh water can exist. After the name of each state, describe one place on, under, or above Earth's surface where fresh water exists in that state.

- a) \_\_\_\_\_
- b) \_\_\_\_\_
- c) \_\_\_\_\_

### Extensions & Applications

An unlabeled diagram of the water cycle is shown below.



Show the processes in the water cycle by completing the diagram.

- a) Draw the arrows that show the movement of water in the water cycle.
- b) For each arrow, write the name of the process indicated by the arrow.





# Activity One

## Build a Model of the Water Cycle

This is what you will need:

- a large glass jar with a lid
- a few tablespoons of salt
- a scale
- a typical kitchen.

This is what you will do:

1. Put a couple inches of cold water and the salt into the jar and stir until the salt disappears.
2. Taste the salt water.
3. Screw the lid on tight.
4. Weigh the jar.
5. Fill the kitchen sink with warm water from the tap.
6. Place the jar in the warm water and leave it there for ten minutes.
7. Weigh the jar again.
8. Place the jar in the refrigerator. (If there is not enough room in the refrigerator, cool the jar by running cold water over it.)
9. Observe any changes inside the jar.
10. Dry the jar with a towel, and weigh it again.
11. Taste any beads of water that have collected on the inside of the jar.

Which parts of the water cycle happened inside the jar?

When did each water cycle process happen?

Did the weight change? Why or why not?

Compare the taste of the salt water and the beads of water and explain your observations.



# Crossword Puzzle!

### Across

3. water-saving kind of irrigation
6. water flowing from a field into a stream
10. the world's most popular drink
11. making fresh water out of salt water
12. to change from solid to liquid
14. the kind of dam electricity comes from
15. solid water

### Down

1. a dry spell
2. bathwater or dishwater
4. water falling from the sky
5. Pumping water out faster than it seeps in is \_\_\_\_\_ use.
7. a big chunk of ice floating in the ocean
8. an underground layer of water
9. Some people collect it from their roof
13. Water goes round and round in a \_\_\_\_\_

Word List		
AQUIFER	DROUGHT	PRECIPITATION
BERGS	GRAYWATER	RAINWATER
CYCLE	HYDROELECTRIC	RUNOFF
DESALINATION	ICE	UNSUSTAINABLE WATER
DRIP	MELT	

(Note: For answers of more than one word, do not put a space between the words.)



# Comprehension Quiz

### Part A

Circle the word **TRUE** if the statement is TRUE or Circle the word **FALSE** if it is FALSE.

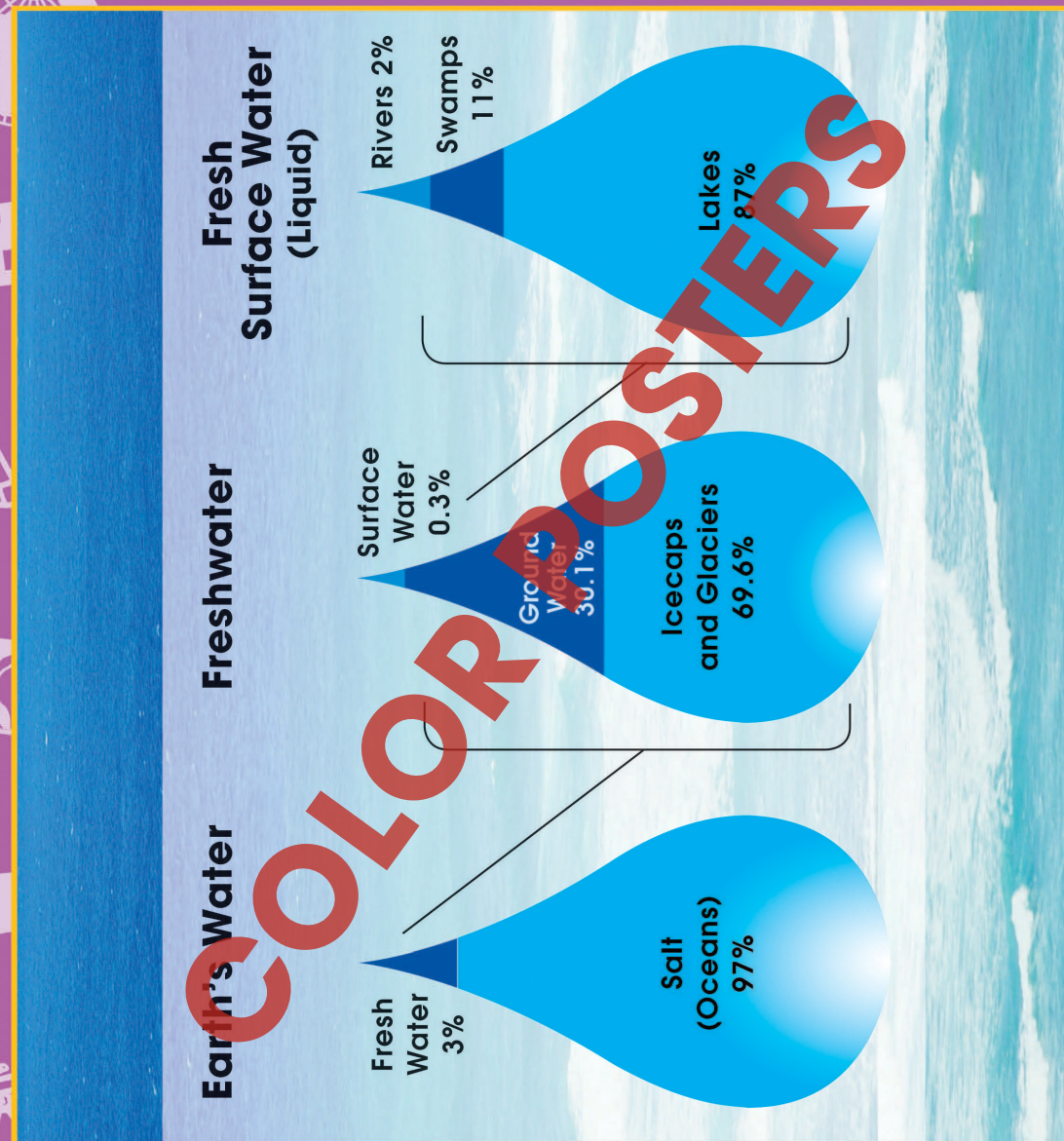
1. The Mississippi River is fresh water.  
**TRUE**      **FALSE**
2. Most fresh water on Earth is either liquid or gas.  
**TRUE**      **FALSE**
3. Burning fossil fuels releases greenhouse gases.  
**TRUE**      **FALSE**
4. An aquifer is the device that controls water flow in a drip irrigation system.  
**TRUE**      **FALSE**
5. Melting polar ice caps will increase Africa's supply of fresh water.  
**TRUE**      **FALSE**
6. One person in four, worldwide, does not have access to safe drinking water.  
**TRUE**      **FALSE**
7. Desalination is another term for graywater recycling.  
**TRUE**      **FALSE**

### Part B

Put a check mark (✓) next to the answer that is most correct.

- a) Water in the ocean is changed into water vapor in the air by:
- A condensation.
- B evaporation.
- C precipitation.
- D respiration.
- b) Which of these is a greenhouse gas?
- A nitrogen
- B oxygen
- C hydrogen
- D carbon dioxide
- c) Which of these continents has the most serious water shortage problem?
- A Africa
- B Europe
- C North America
- D South America

# Where Is Fresh Water?



NAME: \_\_\_\_\_

After You Read 



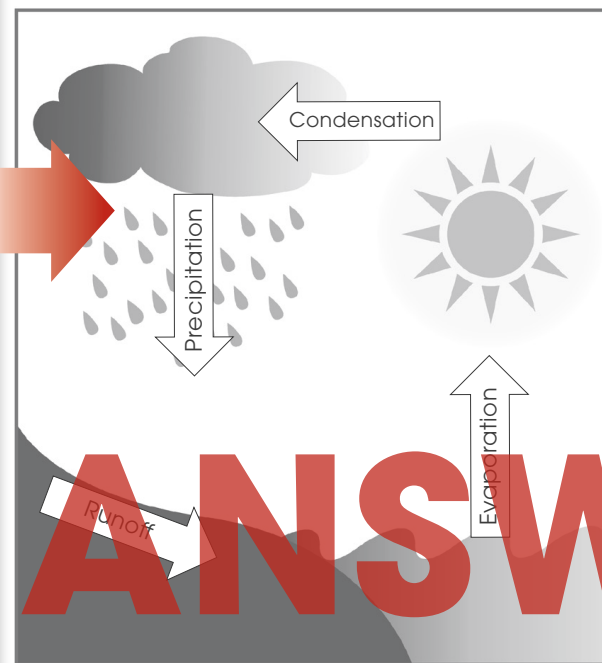
## What Is Fresh Water?

3. Answer the questions in complete sentences. Fresh water is present on Earth in each of the three states of matter. Name each of the three states in which fresh water can exist. After the name of each state, describe one place on, under, or above Earth's surface where fresh water exists in that state.

- a) \_\_\_\_\_
- b) \_\_\_\_\_
- c) \_\_\_\_\_

### Extensions & Applications

An unlabeled diagram of the water cycle is shown below.



- 3.
- a) (Answers will vary.) Solid water is found in ice caps.
- b) Liquid water is found in the ocean.
- c) Water as a gas is found in the atmosphere.

Evaporation, and condensation (and perhaps runoff) happened in the jar.

Evaporation happened when the jar was heated, and condensation (and perhaps runoff) happened when the jar was cooled.

The weight did not change because the water was recycled and did not leave the jar (answers will vary).

The beads of condensed water did not taste salty.

13

The temperature was higher inside the jar. Light came in, heated the inside, and heat was trapped.

14

- Historians tend to believe water conflicts will not lead to wars.
- Some historians say water is too important to fight over.
- (Answers will vary.) The Jordan, the Nile, the Colorado etc.

15

(Answers will vary.)

16

# EASY MARKING ANSWER KEY

Show the processes in the water cycle by completing the diagram.

- a) Draw the arrows that show the movement of water in the water cycle.
- b) For each arrow, write the name of the process indicated by the arrow.

