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**Conservation: Waterway Habitat Resources**

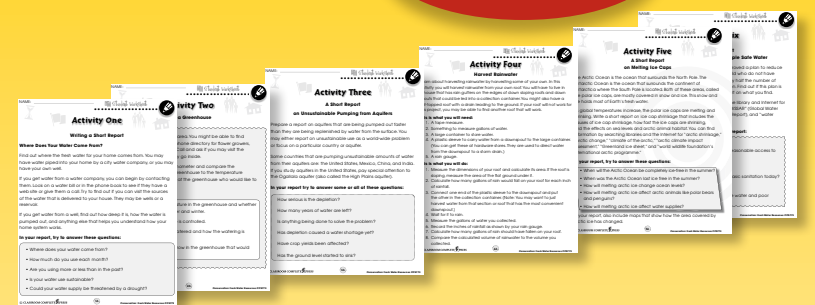
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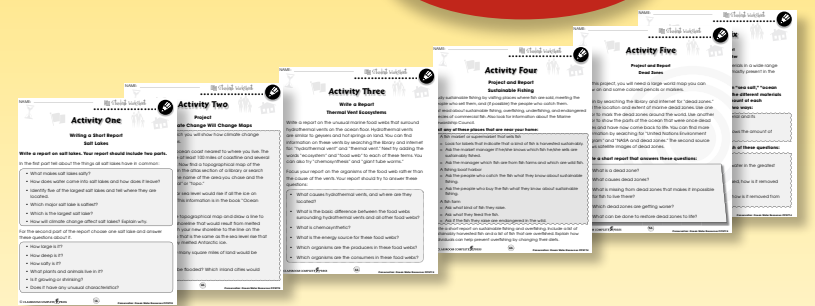
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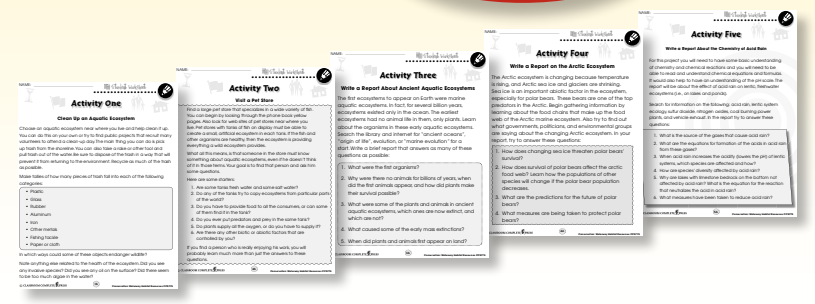
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## What Is Fresh Water?

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.

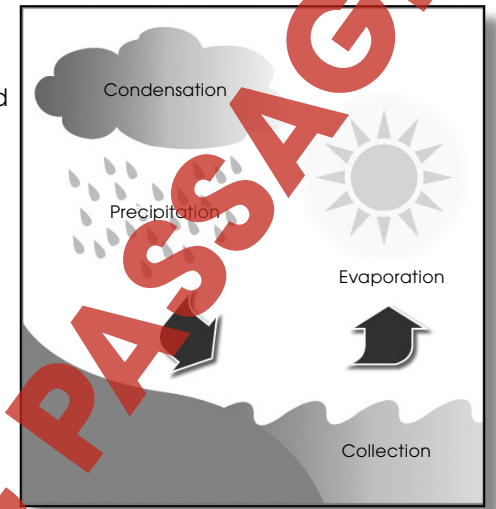


## What Is Fresh Water?

**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

**STOP** 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 Two

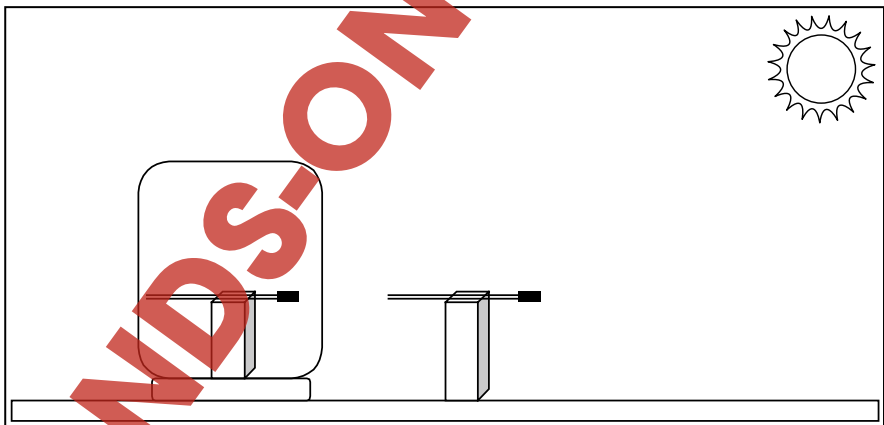
## Build a Greenhouse

For this activity you will need:

- A large glass jar, a glass goldfish bowl, or a glass aquarium.
- Two thermometers
- Any two flat-topped objects about half as high as the jar, bowl, or aquarium.

This is what you will do:

1. Take all your materials outside on a sunny day.
2. Read and record the temperature on one of your thermometers.
3. Arrange your experiment as shown below.



4. Read the thermometers every 15 minutes for two hours.

How did the temperatures inside and outside the glass container compare?  
Explain your observations in terms of the greenhouse effect.



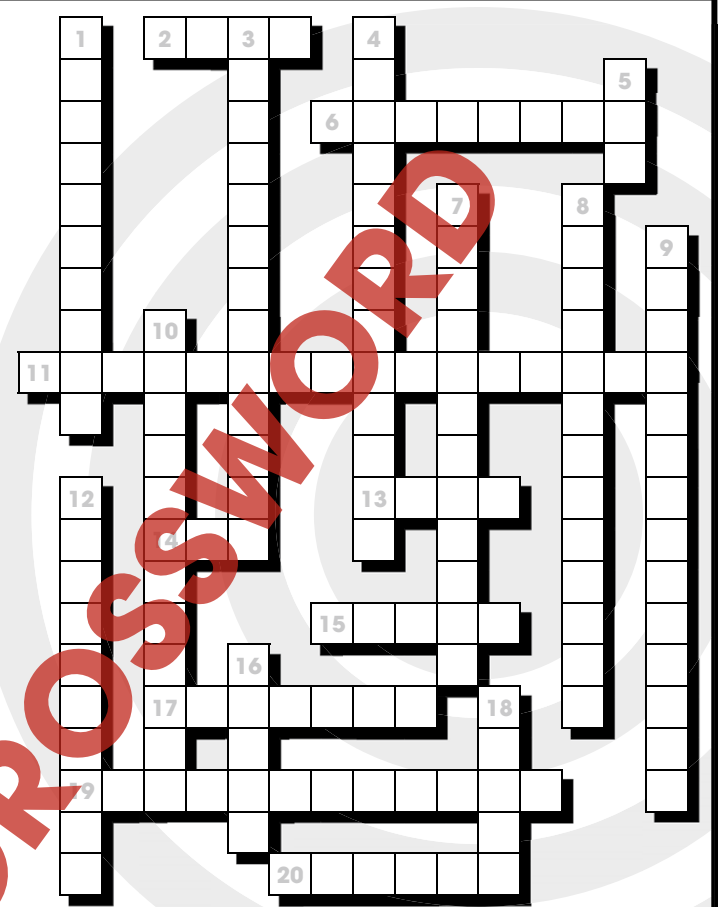
# Crossword Puzzle!

### Across

2. The chemical formula of sea salt.
6. A part of the ocean where fish cannot live.
11. This keeps Earth's heat from escaping into space.
13. This inland salt sea in Asia has lost 75% of its surface area.
14. Solid water
15. When water evaporates, it becomes water \_\_\_\_\_
17. A giant ice cube floating in the ocean.
19. Saving resources by using them more carefully.
20. Oil, coal, and natural gas are \_\_\_\_\_ fuels.

### Down

1. All the gases above Earth's surface make up the \_\_\_\_\_
3. Rising global temperature is an example of this.
4. Any one of the gases that trap Earth's heat.
5. A large body of water.
7. The process before precipitation.
8. 3.5% is the \_\_\_\_\_ of salt in sea water.
9. This process cannot take place below an ocean depth of 2000 feet.
10. Removing the salt from salt water.
12. Evaporation, condensation, precipitation, runoff.
16. Sea \_\_\_\_\_ is zero altitude.
18. A low-lying tropica island.



Word List		
ARAL	DEAD ZONE	LEVEL
ATMOSPHERE	DESALINATION	NaCl
ATOLL	FOSSIL	PHOTOSYNTHESIS
CLIMATE CHANGE	GREENHOUSE EFFECT	SEA
CONCENTRATION	GREENHOUSE GAS	VAPOR
CONDENSATION	ICE	WATER CYCLE
CONSERVATION	ICE BERG	

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



# Comprehension Quiz

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### Part A

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

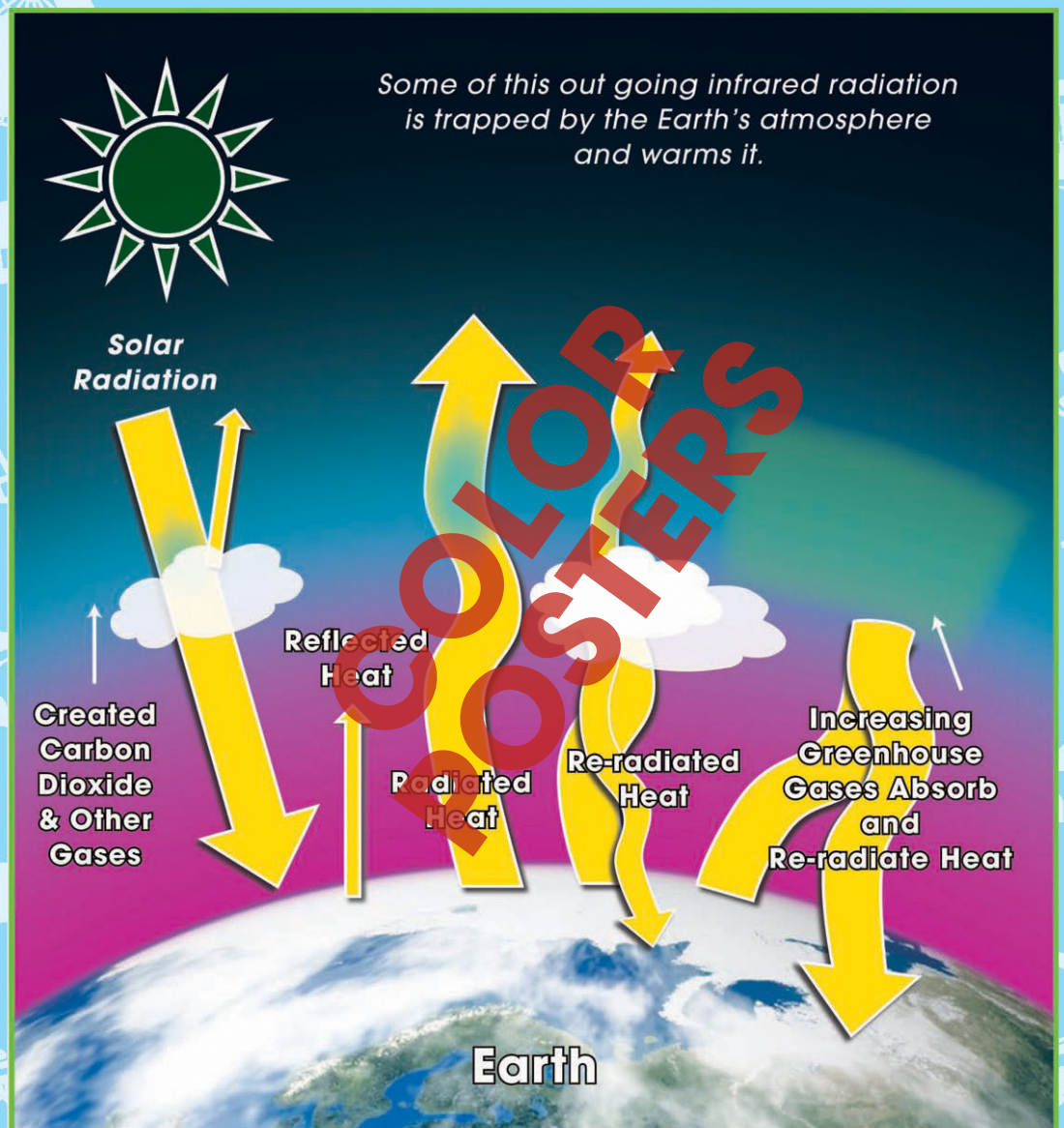
1. Biotic and abiotic factors cannot share the same ecosystem.  
**TRUE**      **FALSE**
2. The first ecosystems were in the ocean.  
**TRUE**      **FALSE**
3. Oxygen is a greenhouse gas.  
**TRUE**      **FALSE**
4. Melting sea ice has made it easier for polar bears to adapt to the Arctic.  
**TRUE**      **FALSE**
5. Burning some fossil fuels can cause acid rain.  
**TRUE**      **FALSE**
6. Human activities brought most invasive species to freshwater ecosystems.  
**TRUE**      **FALSE**
7. Coral reefs are endangered by human activities.  
**TRUE**      **FALSE**

### Part B

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

- a) Which is a product of photosynthesis?
- A oxygen
- B nitrogen
- C carbon dioxide
- D sodium chloride
- b) Which are the most important producers in most aquatic ecosystems?
- A algae
- B bacteria
- C fish
- D invertebrates
- c) What is the basic cause of most extinctions?
- A predators
- B overpopulation
- C natural disasters
- D failure to adapt to change

# The Greenhouse Effect





# How Climate Change Can Affect Fresh Water

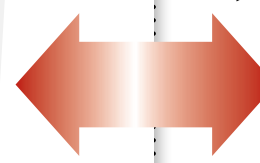


1. Circle the word **TRUE** if the statement is TRUE or Circle the word **FALSE** if it is FALSE.

- a) Earth's average temperature is getting warmer.  
**TRUE      FALSE**
- b) The greenhouse effect explains how plants use sunlight to make food.  
**TRUE      FALSE**
- c) Carbon dioxide is a greenhouse gas.  
**TRUE      FALSE**
- d) Ice caps at the North and South Poles are fresh water.  
**TRUE      FALSE**
- e) Polar ice caps are getting larger.  
**TRUE      FALSE**
- f) Ocean levels are rising.  
**TRUE      FALSE**
- g) Rising temperature causes water to evaporate more slowly.  
**TRUE      FALSE**
- h) Using gasoline as a fuel releases greenhouse gases.  
**TRUE      FALSE**

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

- a) All of these are fossil fuels, *except*:
  - A oil
  - B coal
  - C wood
  - D natural gas
- b) Where is most of Earth's fresh water?
  - A in lakes
  - B underground
  - C in the oceans
  - D in polar ice caps



- 1.
  - a) TRUE
  - b) FALSE
  - c) TRUE
  - d) TRUE
  - e) FALSE
  - f) TRUE
  - g) FALSE
  - h) TRUE

(Answers will vary.) Light passes through glass easily, but heat is trapped.

- 19
- 1.
  - a)  B
  - b)  D

- 3.
  - a) (Answers will vary.) Average temperature will rise. Rainfall patterns will change. Etc.
  - b) (Answers will vary.) Some places will get more rainfall, and some will get less, but the pattern cannot be predicted.

### Extensions & Applications

- a) The moon has no greenhouse effect because the moon has no atmosphere.

- 1.
  - a) FALSE
  - b) FALSE
  - c) FALSE
  - d) TRUE
  - e) TRUE
  - f) TRUE

- c)  A

- 2.
  - a)  C
  - b)  D

- 2.
  - a) increase
  - b) increase
  - c) decrease
  - d) increase
  - e) increase

- b) Light passes easily through the atmosphere or the glass and heats the surface. The surface releases heat which is partly trapped because it cannot go out as easily as the light came in.

- 2.
  - a) fresh
  - b) irrigation, rainfall (in either order)
  - c) underground
  - d) salt
  - e) unsustainable



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23



18