

## Brainpop—Water

Name:

Period:

### Practice

Watch the Brainpop on water, then answer the questions below.

\_\_\_\_\_ 1. What are the parts of a molecule of pure water?

- a. 2 oxygen atoms, 1 hydrogen atom
- b. 2 hydrogen atoms, 1 oxygen atom
- c. 2 oxygen atoms, 2 hydrogen atoms
- d. 1 hydrogen atom, 1 oxygen atom

\_\_\_\_\_ 2. What might happen if water molecules did not have different charges on different ends?

- a. water would not be able to freeze or boil
- b. water would not make anything wet
- c. water would not stick together in droplets
- d. water would not be in oceans

\_\_\_\_\_ 3. What is one effect of water's "stickiness," shown in the cartoon?

- a. birds can float on water
- b. insects can walk on the water's surface
- c. water is hard to get off your body
- d. ocean water can hold salt in it

\_\_\_\_\_ 4. Water is known as the "universal solvent." What is the best synonym for "solvent?"

- a. something that dissolves other things
- b. something that makes other things float
- c. something that is found everywhere
- d. something that is necessary for life

\_\_\_\_\_ 5. Which of the following would you expect to freeze at the lowest temperature (have the lowest freezing point)?

- a. filtered bottled water
- b. salty ocean water
- c. lake water containing algae
- d. river water containing fish

\_\_\_\_\_ 6. What is one sign that the water where you live is "hard?"

- a. soap rinses off easily
- b. spots are left on the pots and pans in your sink
- c. you feel sick after drinking water from the faucet
- d. it will not form ice when you put it in the freezer

\_\_\_\_\_ 7. What is the major difference between hard and soft water?

- a. how much they hurt when you take a shower
- b. the temperatures at which they freeze and boil
- c. how much salt is in them
- d. the amount of minerals dissolved inside them

\_\_\_\_\_ 8. All life on Earth depends upon liquid water somehow. Which of these particular activities does NOT require water?

- a. drinking
- b. bathing
- c. flying
- d. swimming

\_\_\_\_\_ 9. Which of the following statements is NOT true about how our body uses water?

- a. water is in our cells
- b. water is in our blood
- c. water is what we breathe
- d. water is what makes up 65% of our body

\_\_\_\_\_ 10. Earth is the only known body in the solar system with lots of liquid water. It is also the only known body that supports life. What can you infer from this?

- a. there is no life in the universe outside of Earth
- b. living organisms can only exist on planetary bodies that have liquid oceans
- c. liquid water may be a requirement for living organisms
- d. frozen oceans on other planetary bodies are all likely to support life

***turn over for more questions***

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Determine if the statement is true or false. If false, replace the word in **bold** with the correct word on the line. If true, write "true" on the line. For example:

\_\_\_\_\_ The **SKY** is blue. → true The **SKY** is blue.

\_\_\_\_\_ The ocean is **DRY**. → wet The ocean is **DRY**.

Possible word choices are provided below. You might not use all of them.

blood insects more soft

1. \_\_\_\_\_ Water covers **LESS** than half of the surface of Earth.
2. \_\_\_\_\_ **HARD** water contains lots of minerals.
3. \_\_\_\_\_ Surface tension lets **COWS** walk on water.
4. \_\_\_\_\_ In humans, water makes up most of our **SKIN**.

## Assessment



Some kinds of otters live in the ocean (salt water), like those in Monterey Bay. Other kinds live in rivers and lakes (fresh water). Which type of otter would you expect to be most affected by freezing temperatures? Explain your answer.

In the space below, draw what a water molecule looks like. Be sure to correctly label each of its atoms as either "hydrogen" or "oxygen".