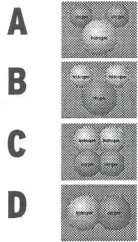


Date: \_\_\_\_\_

Name: \_\_\_\_\_

Class: \_\_\_\_\_

**1 Which of the following is a correct depiction of a molecule of pure water?**



**2 What might happen if water molecules did not have a slight negative charge on one end and a slight positive charge on the other?**

- A** Water would not be able to freeze or boil
- B** Water would never become "hard" or "soft"
- C** Water molecules would not clump together in droplets
- D** Only saltwater, not freshwater, would exist on earth

**3 Water is known as the "universal solvent." What is the best synonym for "solvent"?**

- A** A substance that dissolves other substances
- B** A substance that exists as a liquid at room temperature
- C** A substance that's found almost everywhere on earth
- D** A substance that is necessary for life

**4 What is the major difference between hard and soft water?**

- A** The number of water molecules they contain
- B** The temperatures at which they freeze and boil
- C** Their salt content
- D** The minerals dissolved inside them

**5 What is one effect of water's "stickiness," or cohesion?**

- A** The salt that forms in ocean water
- B** The surface tension that forms on lakes and ponds
- C** The waves you see in lakes and oceans
- D** The currents that form in streams and rivers

**6 Which of the following has the lowest freezing point?**

- A** The water that comes out of your kitchen faucet
- B** Salty ocean water
- C** Fresh lake water
- D** Running river water

**7 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

**8 What is one sign that the water in your house is "hard"?**

- A** Soap forms a rich, foamy lather when you use it
- B** There are mineral deposits on the pots and pans in your sink
- C** You become sick after drinking water from the faucet
- D** It will not form ice when you put it in the freezer

**9 In the movie, Tim says that water's versatility allows for chemical reactions vital to life. What does this mean?**

- A** Water has many uses and applications
- B** Water can be found in many places on Earth
- C** Water can exist as a solid, liquid, or gas
- D** Water often contains many chemicals

**10 If you weigh 100 kg, how much would you weigh if all the water were removed from your body?**

- A** 65 kg
- B** 45 kg
- C** 50 kg
- D** 35 kg