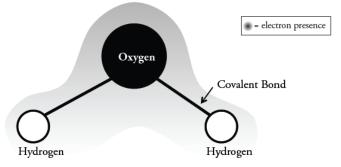
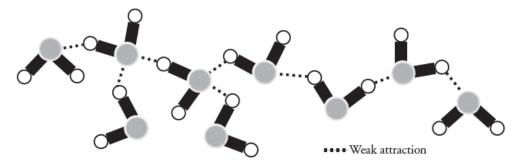
Properties of Water Review

<u>Directions:</u> Study the figures below and then answer the questions that follow them.



Electron density model of H₂O

- 2. How many oxygen atoms are there in water?
- 3. What holds the hydrogen atoms to the oxygen atoms?
- 4. The shading around the molecule represents the relative density of electrons shared by the atoms. Where are electrons more dense? Around the oxygen atom or the hydrogen atom?
- 5. Where is the majority of the negative charge on the water molecule? Around the oxygen atoms or the hydrogen atoms?



- 6. The figure above shows multiple water molecules interacting with one another. Based on what you should already know about water, what bond or atom is represented by....
 - a. The shaded circles ______
 - b. The unshaded circles ______
 - c. The black, rectangular boxes ______
 - d. The dots between water molecules
 - e. What part of one water molecule is attracted to another water molecule?

7.	Provide an example that relates to living things for each property of water.	
	A.	
	В.	
	C.	
	D.	
8.	Indicate whether the description a. Oil b. Cotton c. hydrocarbons d. "Water-fearing" e. fats f. "Water-loving" g. cell membranes h. Will dissolve in water i. Will not dissolve in water j. ionic k. polar l. nonpolar	on or substance is hydrophilic or hydrophobic: