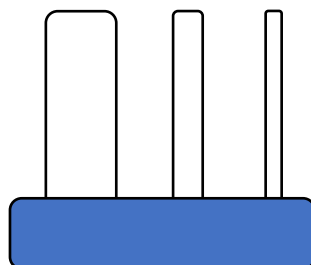
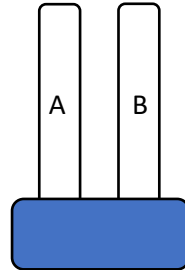


A 1.1 Water

1. A water molecule is made up of ___ atoms of _____ and _ atom of _____. These atoms join via a _____ bond.
2. The _____ of water molecules is due to _____ sharing of _____ within this type of bond. This phenomenon can be shown by drawing a single molecule of water:
3. Water has special properties because of the _____ bonds that can form between them. This is a schematic of that type of bond between 3 molecules of water:
4. Due to _____ which is caused by the formation of _____ bonds _____ water molecules, water can be moved under _____ in the part of a plant called the _____. This phenomenon also allows for insects to travel across the top of water due to an effect called _____.
5. _____ should not be confused with _____, which is the result of water **interacting with other** _____ or _____ molecules such as those found in soil and in plant _____.
6. _____ action in soil can be easily represented by a simple schematic. Indicate the level the water will reach in each of the open test-tubes:



7. Test tube A is filled with clay and test tube B with sand. In test tube ____ the water level will increase the most due to the _____ action caused by the interaction of the _____ water molecules with the _____ molecules. _____ is less _____ and also has _____ gaps so will hold less water.



8. Due to the _____ of the water molecule, _____ or _____ molecules easily dissolve in it. This makes water an excellent _____. This is crucial for _____, the chemical reactions that take place inside cells, and also allows for the _____ of critical molecules inside larger plants and animals.
9. Naturally, not all molecules are _____. It is important to understand that fats are not. They form part of the _____ membrane.
10. The properties of water allow for animals to live in _____ habitats. For example, water has relatively low _____ compared to other liquids. This allows organisms such as the _____ seal to swim in it. The scientific name is _____. Other organisms, such as the _____ loon can float on it. The scientific name is _____.