

Name: _____

Unique Properties of Water

Stop the Process: Guiding Questions

Learning Target

Relate the importance of polarity to the properties of water.

1. Draw a single water molecule and label the following: covalent bond (2), hydrogen atoms (2), oxygen atom (1), negative charge (1), and positive charges (2).



2. Define polar molecule.

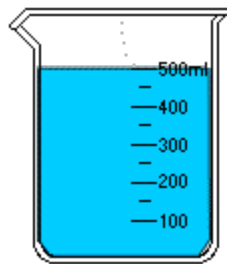
3. Is a hydrogen bond a type of ionic bond? How do you know?

4. Compare and contrast cohesion and adhesion.

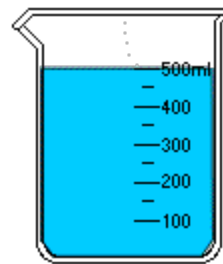
Cohesion	Adhesion

5. Define surface tension.

6. Draw an arrow indicating the flow of energy from one beaker to the other.



COLD



HOT

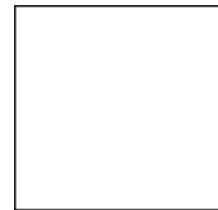
7. Draw three samples of water molecules in the solid, liquid, and gas form.



SOLID

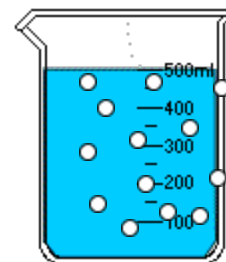
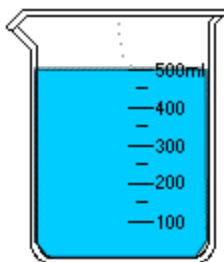


LIQUID



GAS

8. Label the following as a solute, solvent, or solution. Each term will be used once.



9. Draw a picture of a dissolved Na^+ ion from salt (NaCl) in relation to at least five water molecules.

