

## Types of Substances

Name \_\_\_\_\_

- 1) Given the following pairs of atoms, predict what kind of bond will form between them (non-polar covalent, polar covalent, or ionic):

Sulfur and Oxygen	_____
Lithium and Iodine	_____
Calcium and Chlorine	_____
Nitrogen and Oxygen	_____
Hydrogen and Carbon	_____

- 2) Molecular compounds are composed of what kind(s) of bonds?

- 3) Ionic Compounds are composed of what kind(s) of bonds?

- 4) Explain how the electronegativity of atoms plays a role in what kind of bond they will form.

- 5) What is a molecule?

- 6) How is the structure of molecular substances different from that of ionic substances?