It Really Does Matter Worksheet

1. List the three basic parts of an atom, along with their charges.
   a. 
   b. 
   c. 

2. Define molecule. Give three examples of specific molecules.
   Definition -
   a. 
   b. 
   c. 

3. Identify two problems with our model of the atom.
   a. 
   b. 

4. Explain what the following people did to expand our knowledge about atoms.
   a. Democritus -
   b. John Dalton -
   c. Sir J. Joseph Thomson -
5. Define matter.

6. List the three states (phases) of matter.
   a. 
   b. 
   c. 

7. List two properties of a solid.
   a. 
   b. 

8. List two properties of a liquid.
   a. 
   b. 

9. List two properties of a gas.
   a. 
   b.
10. In the boxes below, draw a picture showing the particles in a solid, liquid, and gas.

| Solid | Liquid | Gas |

11. Describe the motion of the particles in a solid, liquid, and gas.
   a. Solid -
   b. Liquid -
   c. Gas -

13. Describe what happens to the motion of the particles in a block of ice as it melts and boils.
   a. Motion of particles as it begins to melt -
   b. Motion of particles when it finishes melting -
   c. Motion of particles as it begins to boil -
   d. Motion of particles when it is boiling -


15. Give three examples of diffusion that occur in our school.
   a. 
   b. 
   c. 
16. Complete the chart.

**Phases of Matter**

**Gas**
- The gaseous phase of water is called
- Another example of a gas is
- When a gas cools and condenses, it becomes a

**Liquid**
- The liquid phase of water is called
- Another example of a liquid is
- When you heat a liquid and it changes phase, it becomes a
- When you cool a liquid and it changes phase, it becomes a

**Solid**
- The solid phase of water is called
- Another example of a solid is
- When you heat a solid and it melts, it becomes a