

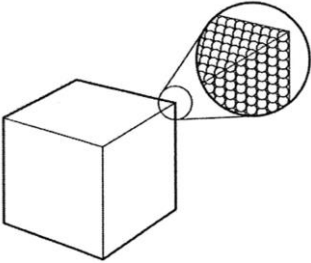
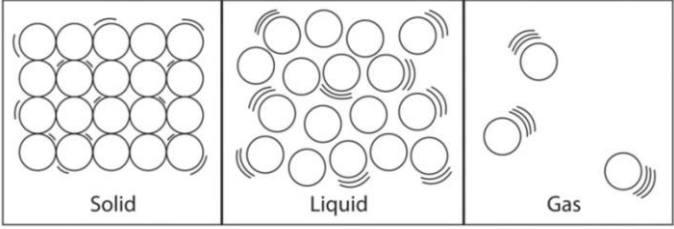
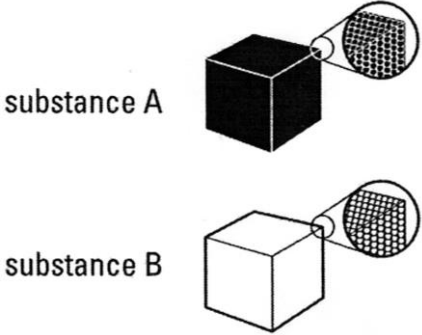
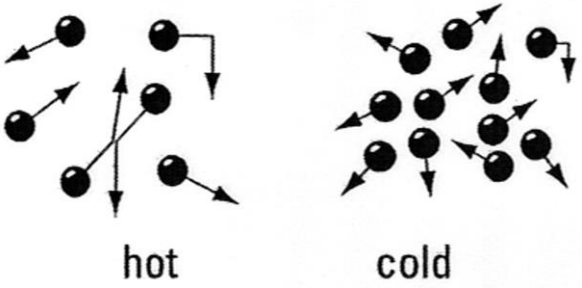
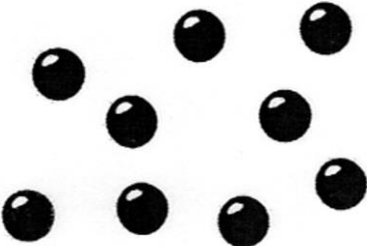
5.1 Particle Theory of Matter & Classifying Matter

Learning Goals/Success Criteria: *At the end of this lesson, I will be able to:*

- Describe the Particle Theory of Matter and explain properties of solids/liquids/gases

Matter is anything that has mass and takes up space (has volume). All matter is made up of particles! Scientist have been observing the particles that make up matter for so long that we now have the Particle Theory. Remember, a “theory” in Science means that many, MANY scientists have gathered evidence that supports this and it is widely accepted conclusion that helps us understand the natural world better.

The Particle Theory of Matter states:

<p>1. All matter is made up of particles.</p> 	<p>4. Particles are always moving. (Yes! Even when they are frozen!).</p> 
<p>2. All particles of one substance are the same. Different substances are made of different particles.</p> 	<p>5. Temperature affects the speed at which particles move. The more energy the particles have, the faster they move.</p> 
<p>3. There are spaces between particles. The spaces between the particles are large compared to the sizes of the particles themselves.</p> 	<p>6. There are attracting forces among the particles. These forces are stronger when the particles are closer together.</p> 