

Name: \_\_\_\_\_  
Blk: \_\_\_\_\_ Date: \_\_\_\_\_

Science 9  
Notes on: The PMM and KMT

**The Particle Model of Matter:**

Describes the **behaviour** of matter

All matter is made of small **particles**.

There are varying **spaces** between the particles.

Gases have **more** space than liquids. Liquids have **more** space than solids.

Particles are always **moving**.

Particles are **attracted** to each other. The strength of attraction depends on the **type** of particle.

**The Kinetic Molecular Theory:**

(Recall from science 8 that Kinetic energy is the energy of objects in **motion**)

Describes what happens to matter when the kinetic energy of particles **changes**.

Matter is made of small **particles**.

There are empty **spaces** between the particles.

Particles are constantly **moving**.

Solid particles are packed together and cannot move freely. They can only **vibrate**.

Liquid particles are farther apart and can **slide past** each other.

Gas particles are far apart and move around **freely**.

Adding **Energy** makes particles move.