

5.4 The Kinetic Molecular Theory

_____ : Of, relating to, or resulting from motion

_____ : a group of atoms bonded together, representing the smallest fundamental unit of a chemical compound that can take part in a chemical reaction.

_____ : a system of ideas intended to explain something

Also known as the KMT, this theory helps to describe the

_____ and _____ in states of matter that we can observe.

Here it is:

1. _____
2. _____
3. _____
4. _____
5. _____

Let's apply it to the 3 main states of matter:

Heat = _____.

Add heat, add _____ . Decrease heat,

decrease _____ .

You can use this concept to describe what happens during evaporation, solidification, melting, etc.

KMT can also explain _____ and _____. The particles of a solid _____ and are distributed among the water particles. _____ water allows more of a solid to dissolve. The _____ particles are moving quickly and can separate the solid at a higher rate.

Density is mass/volume. More _____ = more space between particles = _____ density

	SOLID	LIQUID	GAS
Distance			
Type of Motion			
Attractive Forces			
Energy			