Date: _____

Investigating Matter

		Investigating Matter	
Wŀ	nat is	s matter?	
Ma	ISS		
	•	a measure of the of matter	in an object
	•	units –	
Vo	lume	e	
	•	a measure of how much	a substance takes up
	•	units –	
<u>The</u>	e Par	rticle Theory of Matter	
The	e par	rticle theory is a way to describe the structure of matter and	l it's behaviour.
1.	All	II matter is composed of very tiny objects called	
		These particles are too small to be seen	
2.	All	Il particles have between them	
	•	The distances between the particles change for different st	ates of matter
3.		articles in matter are always in	
	•	They can vibrate back and forth, or move in all directions	
4.		ne particles in a substanceeach c	
	•	The amount of attraction is different for different kinds of	particles

Changes of State

Solids, liquids, and gases are called ______ of matter

melting point

temperature at which a ______turns into a ______

freezing point

temperature at which a ______turns into a ______

* melting point and freezing point are always the ______ temperature for a substance

boiling point

• temperature at which a liquid turns into a gas and the temperature at which a gas turns into a liquid

Particles and Heat

	ice	water	gas	
speed of particles				
force of attraction between particles				
spaces between particles				
heat is added				