

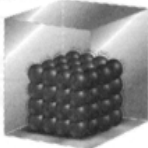
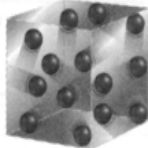
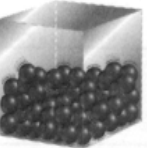
SCIENCE 8 – STATES OF MATTER WORKSHEET

NAME: _____

Vocabulary			
Contracts	Kinetic molecular theory	Move around quickly	State of matter
Expands	Mass	Slide past each other	Vibrate
Faster	Matter	Slower	Volume

Use your notes from pages 1 – 2 and the terms in the vocabulary box to fill in the blanks for the following nine questions. You will not need to use every term.

- 1) _____ is the amount of matter that makes up something.
- 2) _____ is the amount of space that a material takes up.
- 3) Anything that has mass and volume is called _____.
- 4) When you add energy to matter, the particles move _____ and the matter _____.
- 5) Particles in a solid are packed so close together they can only _____.
- 6) Particles in a liquid can _____.
- 7) Particles in a gas can _____.
- 8) When you remove energy from particles they move _____ and the matter _____.
- 9) The _____ explains how particles act when their spacing and movement change.
- 10) Match each **Term** on the left with the best **Descriptor** on the right. Each **Descriptor** may be used only once

Term		Descriptor						
	Mass	A.	Anything that has mass and volume					
	Solid	B.	Amount of space an object takes up					
	Gas	C.	Amount of matter in an object					
	Matter	D.		E.		F.		
	Liquid							
	Volume							

11) Complete the following table to describe three states of matter. The table has been partially completed to help you.

	Solid	Liquid	Gas
Shape		Not fixed; takes the shape of the container	
Volume	Fixed volume		
Spaces between particles			
Movement of particles			Can move freely and quickly in all directions in the container

12) Use your knowledge of the kinetic molecular theory to explain the following statements:

(a) Solids have a definite shape because _____

(b) Liquids and gases flow because _____

(c) Ice cubes form in the freezer because _____

(d) Ice cream melts quickly on a hot day because _____

(e) Gases do not have a definite shape because _____

