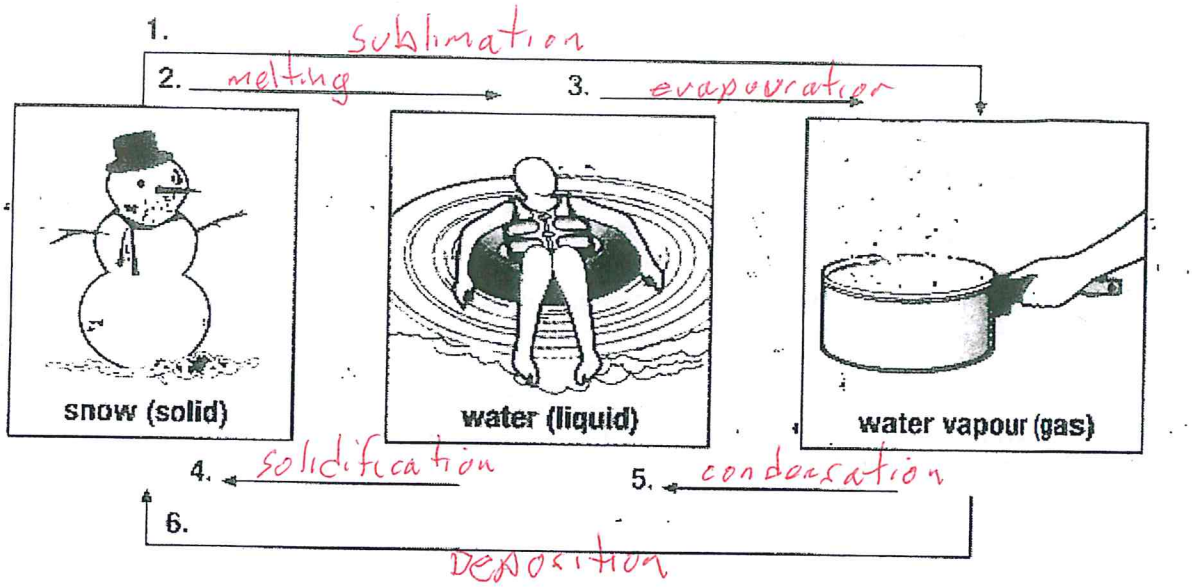
Grade 7 Science

CHANGES OF STATE WORKSHEET

NAME: _____ Class: _____ Date _____

Vocabulary	
Condensation	Melting
Deposition	Solidification
Evaporation	Sublimation

Use the terms in the vocabulary box to label the diagram. Place the terms on the numbered arrows.



7) Complete the following table by describing the change of state. The table has been partially completed to help you.

	Change of state	Heat added or released
Condensation	gas → liquid	Released
Deposition	gas → solid	lots released
Evaporation	Liquid → Gas	added
Melting	solid → liquid	Added
Solidification	liquid → solid	released
Sublimation	solid → gas	lots added

8) Match each **Description** on the left with the correct change of state on the right. You may use some changes of state more than once.

Term		Descriptor	
E	Ice is left out on the counter	A.	Sublimation
D	Frost forms on the window on a cold day	B.	Condensation
F	Water is left in a freezer	C.	Evaporation
C	Clothes are left out to dry	D.	Deposition
A	Dry ice is used to create fog	E.	Melting
B	The bathroom mirror gets fogged up after a shower	F.	Solidification
C	A pond gets shallower at the end of a long hot summer		
C	Your hair was wet when you left the house, but dries by the time you get to school		
E	The ice cream you are eating drips down your arm		
C	A full pot of soup fills only half of the pot after summering for 2 h		
F	Liquid glass cools and hardens		
C	A cold drink is wet on the outside of the glass		

9) What is the difference between heat and temperature?

heat is the amount of energy in a substance and temperature is the level of energy of an object or material. Energy is measured in calories and Temp is measured in degrees Celcius.

10) How does matter change from one state to another?

by adding or removing heat, the temperature changes and at certain temperatures, the substance will change state.

11) What is the relationship between the amount of space between particles and the state of the matter?

solid - close together liquid - farther apart (high energy) gas - very far apart (highest energy)

12) How is melting similar to solidification? How is it different?

melting and solidification both happen at the same temperature one requires heat to be added (melting) and the other is a loss of energy (solidification)