CHAPTER 3 STATES (OF MATTER	Page 1
I THREE STATES OF MATTER:		
A. Particles of Matter		
1. Matter is made up of tin	y particles calle	ed &
2. They are always in	& always	into one anot
233333 233333 233333 233333		
SOLID LI	QUID	GAS
B. <u>Solids</u>		
1. They have a definite		&
2. The particles in a solid _		_ in place.
3 solids h	ave particles ar	ranged in
4solids h do have a special		nat
C. Liquids		<u>}</u>
1. They have definite	·	
2. They take the shape of t	he	
3. Their particles	past each c	other.
4. Two other properties of	liquids:	
a) Surface tension:		
b) Viscosity:		

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D. Gases

- 1. They have _____definite shape or volume.
- 2. The particles move _____ and can

_____ completely from one another.

II BEHAVIOR OF GASES:

- A. Describing Gas Behavior
 - 1. Temperature- measure of _____

SO.... the hotter it is, the _____ the particles move.

- 2. Volume- amount of ______ that an object takes up. SO...if a balloon is heated, it will _____.
- 3. Pressure-the amount of _____ exerted on a surface, SO ...the _____ particles of gas a container, the _____

pressure there is in that container.

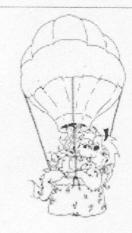
- B. Gas Behavior Laws
 - 1. Boyle's Law: volume and pressure are indirectly related, so...

The _____ the pressure, the _____ the volume.

2. Charles's Law: volume and temperature are directly related, so..

The _____ the temperature, the _____ the volume. III CHANGES OF STATE:

- A. Energy and Changes of State:
 - 1. Changing from one _____ form to another.
 - 2. All changes of _____ are _____ changes.



B. Melting: Solid to Liquid	
1. As the increases, the particles of	
the solid move until it	
2. Energy must be to make a solid	
· · · · · · · · · · · · · · · · · · ·	
3. Energy has to be so it is <u>endothermic.</u>	
C. Freezing: Liquid to Solid	
1. As the temperature, the particles	
move until it	
2. Energy must be so it is <u>exothermic</u> .	
D. Evaporation: Liquid to Gas	
1. Energy is neededso when you sweat, is	
removed from your and you are	
2. Evaporation occurs at the of the liquid.	
3 occurs throughout the	
4. Atmospheric pressure affects the boiling point.	
5. The the pressure, the	
	-
6. Water in Saratoga, boils at]
E. Condensation: Gas to Liquid	
1. Condensationis the	
at which a gas becomes a liquid.	
2. Energy must be	

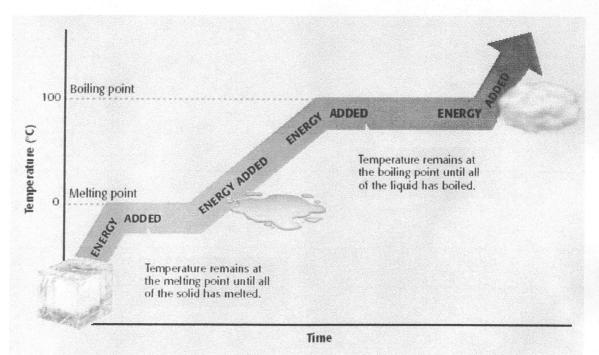
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E. Sublimation: Solid to Gas

- 1. Skips the _____ stage.
- 2. Example: dry ice (frozen _____)
- F. Change of Temperature Vs Change of State





G. Summary

