



Topic/Objective CHAPTER: 3

NAME:

Pd: 1 2 4 5 other

DATE

Chemistry

11/6

Essential Question

does it Matter?

pt 1

Cue: Review:
Thoughts: Main Idea

NOTE Taking AREA:

Matter

see text book
page 73

↳ is anything that has volume and mass

↳ ALL matter on ⊕ & in the universe occurs in a certain form.

↳ as of today there are 8 forms of matter but we are going to talk mainly about 4 of them.

Forms of matter

1) Solid

↳ substance w/ densely packed particles that have a definite shape ^(and size) and volume.
↳ Fixed position

↳ most have a CRYSTALLINE structure.

e.g. ↳ wood is an example of Solid.

↳ a morphous solid: Glass is a solid example but it moves!

↳ Also have a solid, geometric pattern.

NOTES CONTINUE ON OTHER SIDE



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NOTE Taking AREA:

* Some solids can lack a crystalline structure

↳ They are called: Amorphous Solids

↳ is a solid which lacks a crystalline structure.

e.g. - Jello

- glass

Liquid

2) Liquid is another State of Matter

↳ If you increase the temperature this increases the thermal vibration of Atoms... thus turning into a liquid

↳ molecules are close together & moving freely

↳ densely packed

↳ Take the shape of the container & have a definite volume.

SUMMARY:



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Chemistry

Essential Question

Does it Matter?

pt 2

Cue: Review:
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NOTE Taking AREA:

3) Gas

- ↳ has ~~NO~~ definite shape & volume
- ↳ unless restrained by a container or force of gravity. They will fill the container
- ↳ Molecules are freely moving & independent

4) Plasma

- ↳ @ extreme temperatures, collisions b/t particles are so violent that electrons are knocked away
- ↳ Hot, Highly ionized electrically conducting gases called: Plasma.

Other forms

5) Bose-Einstein

6) Quantum

7) Fermionic Condensate

8) Quark-gluon plasma



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NOTE Taking AREA:

Water is unique to earth b/c it can exist in all 3 states at the same time

Changes of matter
Liquid Solid Gas

Terms to diagram

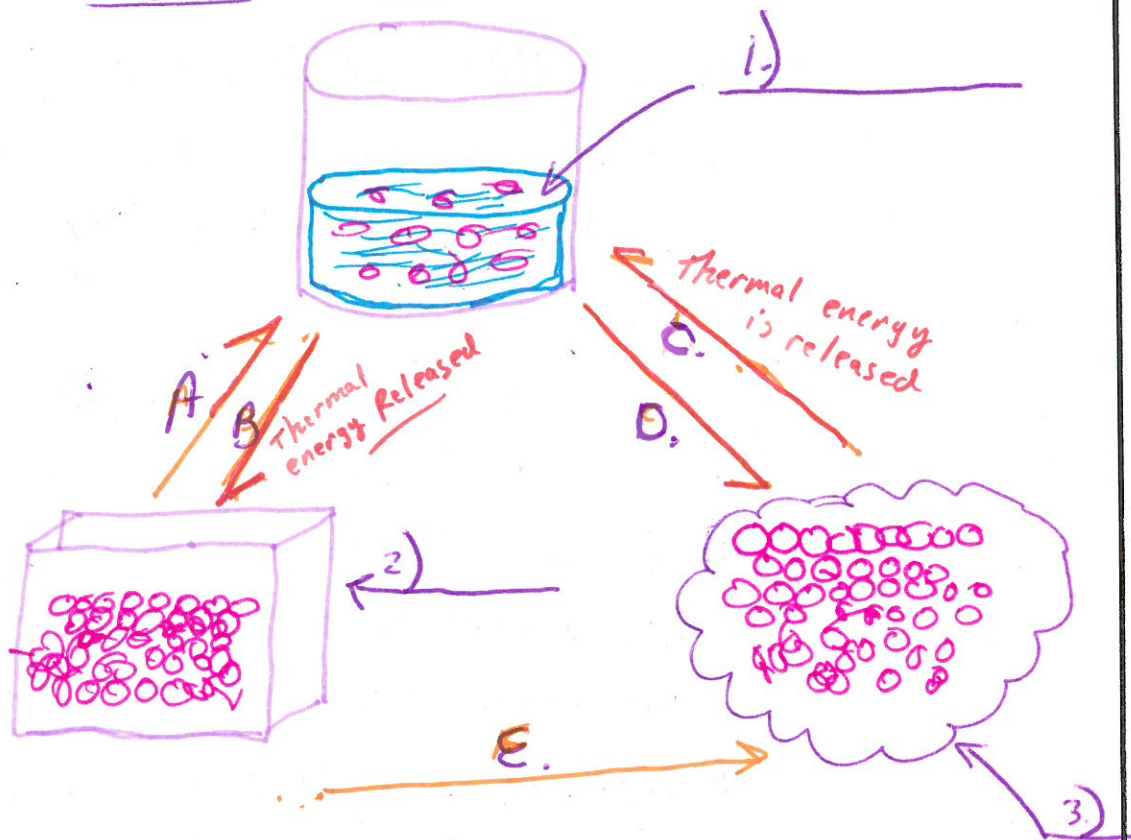
A Melting

D Vaporization

E Sublimation

B Freezing

C Condensation



Law of Conservation of Matter:

↳ matter cannot be created or destroyed
only Δ _{changed}

Law of Conservation of Energy

AKA the 1ST Law of Thermodynamics.

Name: _____

Period: _____

_____ is anything that has mass (& volume) & takes up space.

11A

SOLID	LIQUID
GAS	PLASMA

Extra Notes: _____

