

States of Matter Study Guide

List the 4 states of matter and their defining properties/characteristics:



_____:

- _____
- _____
- _____
- _____

_____:

- _____
- _____
- _____
- _____

_____:

- _____
- _____
- _____
- _____

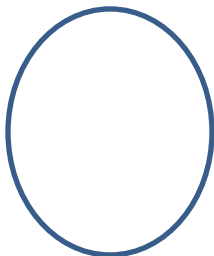
_____:

- _____
- _____
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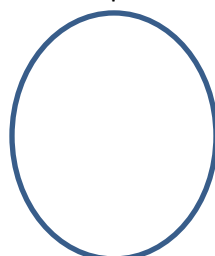
Particle Motion:

Diagram (picture & words) to describe the motion of the particles in these 3 common states of matter.

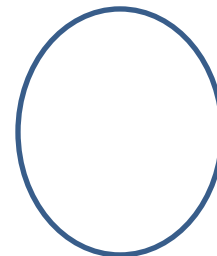
Solid



Liquid



Gas



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Know the definitions for these terms. Be able to match them on a test, and use their meanings.

Be able to identify if each process happens *when energy increases (is added)* or *when energy decreases (is lost)*.

melting _____

freezing _____

boiling _____

evaporation _____

condensation _____

sublimation _____

deposition _____

What does not change during a change of state?

What does change as a result of a change of state?

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What are two different things that can happen to a substance when energy is added or removed?

Can these two things happen at the same time? _____

What happens to the temperature of a substance while it is changing state? _____

Memorize & be able to write:

What is the meaning of the phrase “conservation of energy”?

What is the meaning of the phrase “kinetic theory of matter”?
