

Name _____ Period: _____ Date: _____

Phase Changes Worksheet

*Important Things to Know - Do Not Skip Over these 2 Sections
READ and REMEMBER*

Kinetic Theory of Matter:

- Molecules are always *moving*. This is known as the *kinetic* theory of matter.
- We measure this kinetic energy with a thermometer as *temperature*.
- The greater the material's internal energy, the higher the temperature of that material.
- *Heat* is the energy flow between objects of different temperature.
- Heat and temperature are NOT the same.
- *Brownian motion* describes how visible particles are seen moving due to invisible molecules bumping into them.

Phases of Matter:

Solid

- matter that has definite volume and shape.
- The molecules are packed together tightly and move slowly.

Liquid

- matter that has definite volume but not shape.
- Since the molecules of a liquid are loosely packed and move with greater speed,
- a liquid can flow and spread.

Gas

- matter that has indefinite volume or shape.
- Molecules of a gas are so loosely arranged and move so rapidly that they will fill their container.

Phase Change Descriptions:

Melting

the change from _____ to _____.

Freezing

the change from _____ to _____.

Evaporation

the change from _____ to _____.

Condensation

the change from _____ to _____.

Sublimation

the change from _____ to _____.

Deposition

the change from _____ to _____.

Fill in the phase changes in the blank provided.

