

## 5.4 The Kinetic Molecular Theory & Changes of State

February 19, 2015 12:59 PM

Describes what happens to matter when the kinetic energy of particles changes

\* matter is made of small particles

\* there is empty space between particles

\* particles are constantly moving

↳ SOLIDS

- particles are packed close together and cannot move freely
- vibrate

↳ LIQUIDS

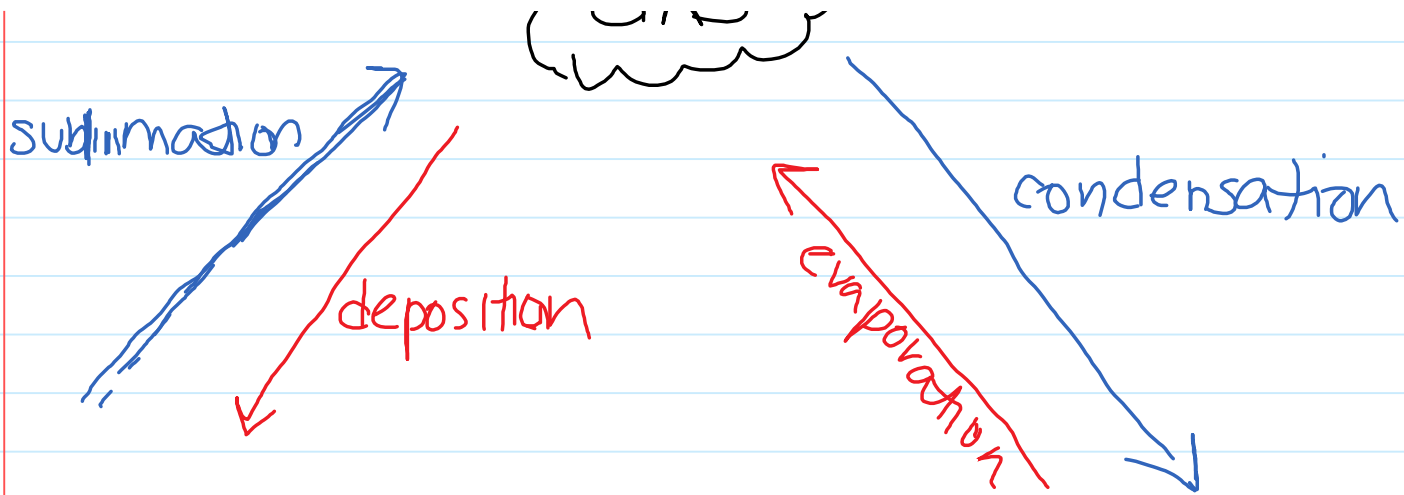
- particles are farther apart
- slide past each other

↳ GAS

- particles are far apart
- move around quickly

\* ENERGY makes particles move \*

GAS



SOLID

Melting

solidification

LIQUID