

### Final Exam Study Guide (General Chemistry I)

- Chemistry - the study of matter and the changes that matter undergoes
- Matter - anything that has mass and takes up space
  - Three states of matter: solid, liquid, and gas (plasma is a gas)

	Proximity of Particles	Energetics	Size/Shape
Solid	Closely packed and in direct contact with each other	Have very little energy of motion (slow)	Fixed shape and fixed volume
Liquid	In indirect contact with each other; usually about a particles distance apart (bounce off each other)	Have an intermediate amount energy of motion (medium)	Does not have a fixed shape; has a fixed volume
Gas	Particles are very far apart	Have a large amount of energy of motion (fast)	No fixed shape or volume

- **PARTICLES ARE ALWAYS MOVING!**
- "Can you undo it?" (Page 12)
  - Physical Changes - changes physical appearance but not its composition
    - Ex. Melting, evaporation, freezing, etc.
  - Chemical Changes - changes in chemical composition of matter (chemical reaction)
    - Ex. Baking soda and vinegar, burning, mixing, etc.
  - Physical Properties - characteristics that can be described by observing the matter; no change in composition is required to detect a physical property
    - Ex. Color, odor, density, etc.
  - Chemical Properties - a change in composition is required to detect a chemical property
    - Ex. Flammability
- Accuracy Versus Precision:
  - In every measurement, there is some degree of uncertainty.
  - **NUMBERS WITHOUT UNITS ARE MEANINGLESS IN MEASUREMENT!**
  - Accuracy - the agreement of a measurement with a known or accepted value (correctness)
  - Precision - the agreement of a measurement with other measurements in a given set of measurements (reproducibility/repeatability)
  - You can have accuracy without precision, and precision without accuracy.
  - **WE ARE ONLY AS CERTAIN AS OUR LEAST CERTAIN NUMBER!**
    - 254 can mean 253.5 to 254.4
    - 254.0 can mean 253.95 to 254.04
    - 254.00 can mean 253.950 to 254.004
    - 254.000 can mean 253.9500 to 254.0004
- Density - the mathematical relationship of mass to volume

# General Science Study Guide For Final Exam

**Henry Barnard**



## **General Science Study Guide For Final Exam:**

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