Chapter One — Matter & Measurements

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- Pure Matter Only one thing. Can be an atom or a compound.
- Mixture More than one thing.
 - Homogenous: Evenly distributed
 - Heterogenous: Not homogenous
- Separation of Mixtures:
 - 1. Distillation Based on boiling into vapor and cooling vapor down
 - 2. Extraction Based on solubility
 - 3. Filtration Based on size
 - 4. Chromatography Based on affinities/attraction (significantly more complex than others)
- Measurements: Length, Volume, Mass, Temp, Pressure

•	Temp	Freeze	Boil
	Fahrenheit	32	212
	Celsius	0	100
	Kelvin	273	373

- All measurements have uncertainty. The less uncertainty, the more accurate a measuring device is.
- Significant Figure Counting Rules:
 - 1. All non-zeros count
 - 2. Zeros
 - (a) Leading Never count
 - (b) Captive Always count
 - (c) Trailing Count if right of decimal count, or left of a decimal point

Ex. 505 has 3 significant figures, 500 has one