## The Scientific Method

- Observations
- Questions
- Hypotheses
- Predictions
- Tests
- Outcomes



## **Fundamental Quantities**

- Distance
- Time
- Mass
- Temperature
- Amount of substance

## Metric Prefixes

- Giga- one billion  $(1,000,000,000 = 10^9)$  G
- Mega- one million  $(1,000,000 = 10^6)$  M
- Kilo- one thousand  $(1,000 = 10^3)$  k
- Hecto- one hundred  $(100 = 10^2)$  h
- Deca- ten  $(10 = 10^1)$  da
- (no prefix) one  $(1 = 10^0)$
- Deci- one-tenth  $(0.1 = 10^{-1}) d$
- Centi- one-hundredth  $(0.01 = 10^{-2})$  c
- Milli- one-thousandth  $(0.001 = 10^{-3})$  m
- Micro- one-millionth  $(0.00001 = 10^{-6}) \mu$
- Nano- one-billionth  $(0.00000001 = 10^{-9})$  n



