

Chapter 2: Measurements and Calculations

I. Scientific Method

- A. **Scientific Method** - a logical approach to solving problems
- B. A **hypothesis** is a testable statement or explanation.

II. Units of Measurement

A. SI Measurement

- 1. Data can be either descriptive (qualitative) or numerical (quantitative).
- 2. A measurement represents a quantity. A **quantity**: something that has magnitude, size, or amount.
- 3. The units are regulated by using the SI system. SI is short for "Le Systeme International d'Unités". (That's French).
- 4. SI units are defined in terms of standards of measurement.

B. SI Base Units.

- 1. A **base unit** is a unit that is 1 dimensional.
- 2. The SI base units are listed Table 1 on page 34.
*Note - mass is measured in kg, it is **not** a weight. Weight is a measure of the gravitational pull on matter.

C. SI Derived Units.

- 1. A **derived unit** is a unit that is formed by a combination of base units. It is multidimensional.
- 2. The SI derived units are listed in Table 3 on page 36.

D. Prefixes.

- 1. SI units use prefixes in order to show magnitude.
- 2. The prefixes are listed in the table given.
- 3. Know prefix, symbol, and magnitude of Mega, Kilo, Deci, Centi, Milli, Micro, Nano, and Pico.

E. Density.

- 1. **Density** - the ratio of mass to volume, or mass divided by volume.
- 2. Density is a characteristic physical property of a substance. It is a specific value for a given substance at a given temperature.
- 3. Density determines whether something will float or not. If you have two substances, the less dense substance will float on the more dense substance. (For example: ice floats on water)

Review Measurements And Calculations Section 3

Answers

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