Metric Measurement Lab

This laboratory exercise is designed as a review of the metric system and will provide practice in manipulating units.

The metric system is based on standard units of length, mass and volume.

Standard units:

Length – meter Mass – gram Volume (liquid) – liter Volume (solid) – cm³ 1 mL = 1 cm³

These standard metric units can be modified by the addition of various prefixes.

Metric prefixes:

Projects

Kilo- 1,000 (10³)

Deci- 0.1 (10¹)

Centi- 0.01 (10²)

Milli- 0.001 (10³)

Micro- 0.000001 (10⁴)

Nano- 0.00000001 (10⁴)

Various instruments are used to make metric measurements.

Metric instruments:

Length – metric ruler Mass – metric scale (triple beam balance) Volume – graduated cylinder, pipettes

You will use all these instruments to complete the following metric measurement exercise.