

**BIOLOGY 102: BIOLOGY, HEALTH AND THE ENVIRONMENT  
LABORATORY  
LAB 2: THE METRIC SYSTEM**

**Laboratory Exercises:**

- 1) Measurements with a meter stick
- 2) Volume measurements
- 3) Temperature measurements
- 4) Conversion practice

**Objectives:**

Upon completion of these exercises a student should be able to:

- 1) Use a metric ruler to measure linear distances
- 2) Read volumes in milliliters using a graduated cylinder
- 3) Determine temperatures in degrees Celsius
- 4) Convert measurements from English units to metric and vice versa

**Background:**

Government and professional societies have urged that the US adopt the metric system in place of the English system of measurements. Although the nation as a whole has failed to embrace metrification, scientist worldwide have adopted the metric system and developed the official System International (SI). Today's exercises are designed to allow you to become familiar with the SI and to begin to develop competency in the use of metric measurements.

**TABLE OF SI UNITS (STANDARD AND DERIVED)**

Physical Quantity	Name of Unit	Abbreviation
Mass	Kilogram	kg
Length	Meter	m
Time	Second	s (or sometimes sec)
Temperature	Kelvin	K
Volume	Liter	L

**SOME USEFUL CONVERSION FACTORS**

- 1 in = 2.54 cm
- 1 mile = 1,609 km
- 1 meter = 1.0936 yd
- 1 kg = 2.205 lb
- 1 lb = 453.6 g
- 1 oz = 28.3 g
- 1 fluid oz = 29.6 ml
- 1 mL = 1 cm<sup>3</sup>
- 1 L = 1.057 qt
- 1 qt = 946.1 mL

- 1 mile = 5280 ft
- 1 lb = 16 oz
- 1 gallon = 4 quarts
- 1 qt = 2 pints
- 1 qt = 32 fluid ounces
- 1 ft = 12 in
- 1 yard = 3 ft

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**KJ Lindholm-Leary**



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