

## 5.4: Procedures

You will measure in English and metric units, and compare these measurements.

### Quantifying a Wood Block

1. Draw a table for the Wood Block. Do not fill in data until you have read the instructions for obtaining that data.

Table 5.4.1: Wood Block Data

Units	Length	Width	Thickness	Volume
Inches				
Centimeters				
Meters				

2. Measure the length, width, and thickness of your wood block in inches and centimeters, and enter these values into your table.
3. Convert all of the centimeter measurements, for your wood block, to meters.
4. Calculate the volume of your wood block, for each set of units (inches, centimeters, and meters), and enter these values into your wood block table.

### Quantifying a Metal Cylinder

5. Draw a table for the Metal Cylinder. Read the instructions for obtaining your *metal cylinder* data.

Table 5.4.2: Metal Cylinder Data

Units	Radius	Height	Volume
Inches			
Centimeters			
Meters			

6. Measure the radius and height of your metal cylinder in inches and centimeters, and enter these values into your table. Do not include the hook when you measure the height.
7. Convert all of the centimeter measurements, for your metal cylinder, to meters
8. Calculate the volume of your metal cylinder, for each set of units (inches, centimeters, and meters), and enter these values into your metal cylinder table.

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