




Measurement
&
SI System

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- I. The SI System is based mainly on the metric system.**
 - II. Reasons to use the metric system**
 - A. Based on 10 and multiples of 10**
 - B. The Old English system is not based on any certain number or pattern**

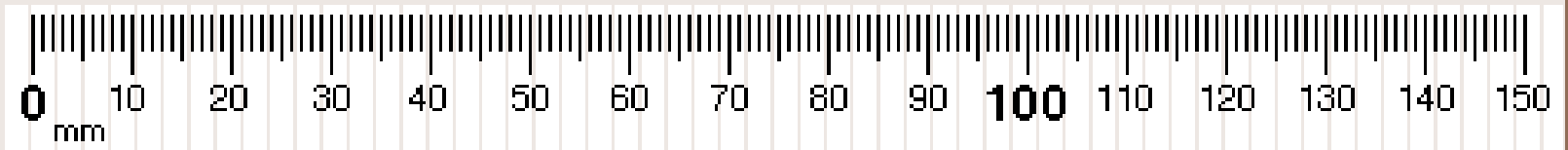
C. The metric system has basic terms that are used each measurement

- 1. All length use the meter**
- 2. All masses use the gram**
- 3. Volume uses the Liter, or cubed length**

D. The metric system has six prefixes to these units that describe how much of or how many of the unit there is.

- 1. milli – $1/1000$ or 0.001**
- 2. centi – $1/100$ or 0.01**
- 3. deci – $1/10$ or 0.1**
- 4. deka – 10**
- 5. hecto – 100**
- 6. kilo – 1000**

E. To do metric conversions all you do is multiply or divide by 10, or move the decimal point.



Metric Conversion Table

kilo	hecto	deka	unit	deci	centi	milli
1000	100	10	1	0.1	0.01	0.001

Move the decimal point the same direction as you count across the line. The unit is the gram, meter, or liter.

Abbreviations

Meter – m, Liter – L, Gram – g, Kilo – k, Hecto – h, Dekka – da, Deci – d, Centi – c, Milli – m