

The Metric System

Converting Units

Name _____

Date _____

Block _____

- People used to measure things using _____ (eg. feet, _____, cubits, stones, links, _____). Of course, this wasn't standardized – each person's foot and hand was a different size.
- Measurements became _____ – The imperial system was developed (_____, feet, pints, _____)
- The metric system was developed to make things easier to _____ and _____. Canada switched over in the early 70's – the U.S. still hasn't changed due to their high level of industry.
- The original platinum kilogram and meter are in a vault underground in _____ at the International Bureau of _____ and _____.

Base Units

- Length = _____
- Volume = _____
- Mass = _____
- Temperature = _____
- Time = _____
- Energy = _____

Metric Prefixes

- | | | |
|-------------------|-------------|-------------------------|
| ■ Nano (n) | | _____ (billionth) |
| ■ Micro (μ) | | 1/1 000 000 (millionth) |
| ■ _____ (m) | (millipede) | 1/1 000 (thousandth) |
| ■ Centi (c) | (century) | _____ (hundredth) |
| ■ _____ (d) | | _____ (tenth) |
| ■ Base | | _____ |
| ■ _____ (da) | (decade) | 10 |
| ■ Hecto (h) | | _____ |
| ■ Kilo (k) | | _____ |
| ■ _____ (M) | (megabyte) | 1 000 000 |
| ■ Giga (G) | | _____ |

Conversion Ladder – see other handout

Try these...

■ $300 \text{ g} = \underline{\hspace{2cm}} \text{ kg}$

■ $5 \text{ mm} = \underline{\hspace{2cm}} \text{ m}$

■ $4 \text{ mL} = \underline{\hspace{2cm}} \text{ L}$

■ $6 \text{ kJ} = \underline{\hspace{2cm}} \text{ dJ}$