

Intro to the Metric System

Matter – Anything that has mass and takes up space.

All matter is made up of atoms.

Metric System – Based on powers of ten.

Metric Prefixes –

Kilo (k) = 1,000

Hecto (h) = 100

Deca (da) = 10

Base (meter/gram/Liter)

Deci (d) = 10

Centi (c) = 100

Milli (m) = 1,000

● **Length** – Base is meter (m)

Tool – meter stick

● **Mass** – The amount of matter there is in a substance.

Based upon the amount and type of atoms.

Base is gram (g)

Tool – Triple beam balance

● **Weight** – Includes the effect of gravity on a mass (changes with gravity)

**Volume – Amount of space
an object/substance
occupies.**

**Solids –
Length X Width X Height
Unit is always cubed (m^3)**

**Liquids -
Base is Liter (L)
Tool – Graduated
Cylinder**