

## Atoms: the foundations of life

SI units:

Temperature in Kelvin :  $T = 0 + 273.15$ .

Volume:

**1L = 1 dm<sup>3</sup>**

**1m<sup>3</sup>= 1000 L**

Length: <http://learn.genetics.utah.edu/content>

Powers of ten.(calculator)

### **Significant figures**

1.234                          4 sig.figs.

123.4                          4sig.fig.

0.001234                    4 sig.fig.

$1.234 \times 10^{-3}$             4 sig.fig

When + or -, quote least decimal places

$$25.46 + 2.346 = 27.806$$

$$\text{Ans} = 27.81$$

When / or \*, quote least sig.fig.

$$0.0123 \times 298.15 \times 2.304 = 8.44933248$$

$$\text{Ans}= 8.45$$

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