

Description

Physical quantities like weights and measures have been standardized through a network of international agreements which collectively form the **SI** or International System of Units (with the French name *Système International d'Unités*).

The system is maintained by the <u>International Bureau of Weights and Measures</u> in Paris, and is updated every few years.

SI base units and symbols

| SI consists of base units which are absolute and independent | o Qeachtiby her. | Unit | Symbol |
|---|-------------------------|------------------------|-----------------|
| | Length | meter | m |
| The base units are consistent with the metric system (referred acronym indicating the first letters of the symbols associated was and time. | tolassthe MKS syst | emboyyath th | e _{kg} |
| | Time units of mea | surement o | flength, |
| | Electric Current | ampere | Α |
| The physical quantities, associated SI units and symbols are il | Temperature adio | kelyin ining table. | K |
| | Amount of | mole | mol |
| In addition to the base units, there are two types of units derive | | | ith and |
| without special names associated with them. | Luminous | candela | cd |
| | intensity | | |

The derived units and the relationship between them can be found here.

Specific prefixes are associated with different factors corresponding to the factor of the **SI** unit, like kilo for thousand, mega for million and giga corresponding to billion.

The kilogram is the only **SI** unit which has the prefix built into the unit.

Category

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