

Unit name	Unit Symbol	Dimension symbol	Quantity name	Definition <sup>1</sup>
<b>metre</b>	m	L	length	<ul style="list-style-type: none"> <li>• <b>Prior</b> (1793): <math>\frac{1}{10\,000\,000}</math> of the meridian through Paris between the North Pole and the Equator.<sup>FG</sup></li> <li>• <b>Interim</b> (1960): 1 650 763.73 wavelengths in a vacuum of the radiation corresponding to the transition between the 2p<sup>10</sup> and 5d<sup>5</sup> quantum levels of the krypton-86 atom.</li> <li>• <b>Current</b> (1983): The distance travelled by light in vacuum in <math>\frac{1}{299\,792\,458}</math> s.</li> </ul>
<b>kilogram<sup>2</sup></b>	kg	M	mass	<ul style="list-style-type: none"> <li>• <b>Prior</b> (1793): The grave was defined as being the mass (then called weight) of one litre of pure water at its freezing point.<sup>FG</sup></li> <li>• <b>Current</b> (1889): The mass of a small squat cylinder of <math>\sim 47\text{ cm}^3</math> of platinum-iridium alloy kept in the Pavillon de Breteuil, France. Also, in practice, any of numerous official replicas of it.</li> <li>• <b>Future</b> (2019): The kg is defined by taking the Planck constant <math>h</math> as exactly <math>6.626\,070\,15 \times 10^{-34}</math> J s (<math>\text{J} = \text{kg m}^2 \text{s}^{-2}</math>), given the definitions of the m and the s.</li> </ul>
<b>second</b>	s	T	time	<ul style="list-style-type: none"> <li>• <b>Prior</b>: <math>\frac{1}{86\,400}</math> of a day of 24 h of 60 min of 60 s.</li> <li>• <b>Interim</b> (1956): <math>\frac{1}{31\,556\,925.9747}</math> of the tropical year for 1900 January 0 at 12 h ephemeris time.</li> <li>• <b>Current</b> (1967): The duration of 9 192 631 770 periods of the radiation corresponding to the transition between the two hyperfine levels of the ground state of the caesium-133 atom.</li> </ul>

<sup>1</sup> Interim definitions are given here only when there has been a significant difference in the definition.

<sup>2</sup> Despite the prefix “kilo-”, the kilogram is the base unit of mass.

<sup>FG</sup> *French Government* (FG).