

**Table 3.6 Fundamental (bold) and derived units frequently used in science**

	<i>symbol</i>	<i>SI measurement units</i>	<i>symbol</i>	<i>unit dimensions</i>
<b>distance</b>	<b><i>d</i></b>	<b>meter</b>	<b><i>m</i></b>	<b><i>m</i></b>
<b>mass</b>	<b><i>m</i></b>	<b>kilogram</b>	<b><i>kg</i></b>	<b><i>kg</i></b>
<b>time</b>	<b><i>t</i></b>	<b>second</b>	<b><i>s</i></b>	<b><i>s</i></b>
<b>electric charge*</b>	<b><i>Q</i></b>	<b>coulomb</b>	<b><i>C</i></b>	<b><i>C</i></b>
<b>temperature</b>	<b><i>T</i></b>	<b>Kelvin</b>	<b><i>K</i></b>	<b><i>K</i></b>
<b>amount of substance</b>	<b><i>n</i></b>	<b>mole</b>	<b><i>mol</i></b>	<b><i>mol</i></b>
<b>luminous intensity</b>	<b><i>I</i></b>	<b>candela</b>	<b><i>cd</i></b>	<b><i>cd</i></b>
acceleration	<i>a</i>	meter per second squared	$\text{m/s}^2$	$\text{m/s}^2$
area	<i>A</i>	square meter	$\text{m}^2$	$\text{m}^2$
capacitance	<i>C</i>	farad	<i>F</i>	$\text{C}^2\cdot\text{s}^2/\text{kg}\cdot\text{m}^2$
concentration	<i>[C]</i>	molar	<i>M</i>	$\text{mol}/\text{dm}^3$
density	<i>D</i>	kilogram per cubic meter	$\text{kg}/\text{m}^3$	$\text{kg}/\text{m}^3$
electric current	<i>I</i>	ampere	<i>A</i>	$\text{C/s}$
electric field intensity	<i>E</i>	newton per coulomb	<i>N/C</i>	$\text{kg}\cdot\text{m}/\text{C}\cdot\text{s}^2$
electric resistance	<i>R</i>	ohm	$\Omega$	$\text{kg}\cdot\text{m}^2/\text{C}^2\cdot\text{s}$
emf	$\xi$	volt	<i>V</i>	$\text{kg}\cdot\text{m}^2/\text{C}\cdot\text{s}^2$
energy	<i>E</i>	joule	<i>J</i>	$\text{kg}\cdot\text{m}^2/\text{s}^2$
force	<i>F</i>	newton	<i>N</i>	$\text{kg}\cdot\text{m}/\text{s}^2$
frequency	<i>f</i>	hertz	<i>Hz</i>	$\text{s}^{-1}$
heat	<i>Q</i>	joule	<i>J</i>	$\text{kg}\cdot\text{m}^2/\text{s}^2$
illumination	<i>E</i>	lux (lumen per square meter)	<i>lx</i>	$\text{cd}/\text{m}^2$
inductance	<i>L</i>	henry	<i>H</i>	$\text{kg}\cdot\text{m}^2/\text{C}^2$
magnetic flux	$\phi$	weber	<i>Wb</i>	$\text{kg}\cdot\text{m}^2/\text{C}\cdot\text{s}$
potential difference	<i>V</i>	volt	<i>V</i>	$\text{kg}\cdot\text{m}^2/\text{C}\cdot\text{s}^2$
power	<i>P</i>	watt	<i>W</i>	$\text{kg}\cdot\text{m}^2/\text{s}^3$
pressure	<i>p</i>	pascal (newton per square meter)	<i>Pa</i>	$\text{kg}/\text{m}\cdot\text{s}^2$
velocity	<i>v</i>	meter per second	$\text{m/s}$	$\text{m/s}$
volume	<i>V</i>	cubic meter	$\text{m}^3$	$\text{m}^3$
work	<i>W</i>	joule	<i>J</i>	$\text{kg}\cdot\text{m}^2/\text{s}^2$