

SI prefixes chart

The 24 SI prefixes adopted by the CGPM (ronna, quetta, ronto and quecto were added in 2022). Prefixes multiply SI units by a power of ten: 1 kN = 1 000 N, 1 μm = 0.000 001 m.

SI prefixes (BIPM SI Brochure, 9th ed., 2022 update)			
PREFIX	SYMBOL	POWER OF TEN	DECIMAL VALUE
quetta	Q	1×10^{30}	–
ronna	R	1×10^{27}	–
yotta	Y	1×10^{24}	–
zetta	Z	1×10^{21}	–
exa	E	1×10^{18}	–
peta	P	1×10^{15}	–
tera	T	1×10^{12}	1,000,000,000,000
giga	G	1×10^9	1,000,000,000
mega	M	1×10^6	1,000,000
kilo	k	1×10^3	1,000
hecto	h	1×10^2	100
deca	da	1×10^1	10
deci	d	1×10^{-1}	0.1
centi	c	1×10^{-2}	0.01
milli	m	1×10^{-3}	0.001
micro	μ	1×10^{-6}	0.000001
nano	n	1×10^{-9}	0.000000001
pico	p	1×10^{-12}	0.000000000001
femto	f	1×10^{-15}	–
atto	a	1×10^{-18}	–
zepto	z	1×10^{-21}	–
yocto	y	1×10^{-24}	–
ronto	r	1×10^{-27}	–
quecto	q	1×10^{-30}	–

Tips

- Symbols are case-sensitive: m (milli) vs M (mega), p (pico) vs P (peta).
- Type u for μ (micro) when your keyboard has no μ key; Unitglide accepts both.
- Never stack prefixes: write ns, not m μ s. The kilogram takes prefixes on the gram (mg, not μ kg).
- Binary prefixes (Ki, Mi, Gi) are IEC, not SI: 1 KiB = 1 024 bytes.