

SI Units & Conversions

7th Grade

The seven base units, the metric prefixes and the decimal-move shortcut.

THE SEVEN SI BASE UNITS

Length	metre	m
Mass	kilogram	kg
Time	second	s
Temperature	kelvin	K
Amount	mole	mol
Current	ampere	A
Luminous intensity	candela	cd

THE PREFIX LADDER

kilo-	hecto-	deca-	BASE	deci-	centi-	milli-
k	h	da	m · g · L	d	c	m
× 1 000	× 100	× 10	× 1	÷ 10	÷ 100	÷ 1 000

each step right = move the decimal point one place right

WORKED

3.6 km → m: three steps right → 3600 m

450 mg → g: three steps left → 0.45 g