

Metric Conversion Staircase

Base Unit (no prefix)

Base Units

m = meters (distance) s = seconds (time)
g = grams (mass) J = Joules (energy)

Prefixes

In the metric system, prefixes are added to base units to change their value. Examples:

km=kilometer (1000 meters)
cm=centimeter (0.01 meters)
mm=millimeter (0.001 meters)
kg=kilogram (1000 grams)

Unit Conversion Examples:

- 1) 2781 cm → _____ m
- 2) 0.023 mm → _____ μm
- 3) 62 kg → _____ mg
- 4) 79,000,000 ns → _____ s