

Conversion Objectives

Students should be able to:

1. Identify the major metric prefixes

Prefix	Symbol	Factor
giga-	G	10^9
mega-	M	10^6
kilo-	k	10^3
centi-	c	10^{-2}
milli-	m	10^{-3}
micro-	μ	10^{-6}
nano-	n	10^{-9}
pico-	p	10^{-12}

2. Know the major English conversions

- 1 mi = 5280 ft
- 1 yd = 3 ft = 36 in

3. Know the major English to metric conversions

- 1 in = 2.54 cm
- 1 kg = 2.2 lb (added note: this is a mass to weight conversion - often misused)

4. Know time conversions

- years, weeks, days, hours, minutes, seconds

5. State an unity conversion for any of the above

6. Use dimensional analysis to convert units