

ANS KEY

Physics 11

A. Byres

SI Units

1) Complete the table below

PREFIX	SYMBOL	POWER OF 10
Giga	G	10^9
Mega	M	10^6
Kilo	K	10^3
hecto	h	10^2
deca	da	10^1

PREFIX	SYMBOL	POWER OF 10
deci	d	$\times 10^{-1}$
centi	c	$\times 10^{-2}$
milli	m	$\times 10^{-3}$
micro	μ	$\times 10^{-6}$
pico	p	$\times 10^{-12}$

2) Name the basic units below

	Unit Name	Symbol
Length	metre	m
Mass	kilogram	kg
Time	second	s
Temperature	Kelvin	K
Luminous intensity	candela	cd
Pressure	pascal	Pa
Amount of substance	mole	mol
Force	Newton	N
Energy	Joule	J
Power	Watt	W
Electric charge	coulomb	C
Frequency	Hertz	Hz
Velocity	meter per second	m/s

3) Conversion Units

1 inch = 2.54 cm

1 mile = 1.6093 km

1 pound = 0.4536 kg

1 yard = 0.9144 m.

4) Change the following units

1. 51 meters = 0.051 km

2. 1234 m = 123400 cm

3. 1 g = 1000 mg

4. 1 inch = 2.54 cm

5. 1 km = 0.6214 miles

6. 1 yard = 0.9144 meters

7. 12 cm = 120 mm

8. 42 mm = 4.2×10^{-3} km

9. 16 L = 0.16 hL