KEY CONCEPTS OF PHYSICS

Significant Figures

The number of non-zero figures after a decimal point or previous number

E.g. 0.020 = 2SF or 12,000 = 2SF

SI Units

Used by all scientists to express quantities from measurements

- Kg – kilogram — Unit of mass (only SI unit with a prefix!)
- M – metre — Unit of length
- S – second — Unit of time
- A – Ampere — Unit of current
- K – Kelvin — Unit of temperature
- Mole – mole — Unit of amount of substance
- Cd – Candela — Unit of luminous flux

Standard Form

Large values may be written as x10 to a power

Eg. X1000 = x10 ^3

Unit Prefixes

to indicate a multiplication factor

Unit Multiples and Submultiples

Nano (n)	÷1,000,000,000
Micro (m)	÷1,000,000
Milli (μ)	÷ 1,000
Centi (c)	÷100
Kilo (k)	x1000
Mega (M)	x1,000,000
Giga (g)	x1,000,000,000

EDEXCEL