

Physics A-Level Entrance Exam Topic List

- Radiation – Alpha, beta and gamma; half life
- Forces – Vectors, scalars, resultant forces and motion, resolving forces (using scale diagrams and trig)
- Electricity – IV characteristics, current in parallel, calculations, sensor circuits
- Momentum and conservation of momentum
- Practical skills: Calculating means, zero errors, control variables
- All the equations below you will be expected to know!

Equations:

$$P = I^2R$$

$$Q = It$$

$$p = mv$$

$$F = ke$$

$$EPE = \frac{1}{2} ke^2$$

Useful revision sources:

CGP Revision guides

<https://www.bbc.co.uk/bitesize/topics/zqw77p3>

<https://www.khanacademy.org/science/physics>

<https://revisionscience.com/gcse-revision/physics>