

Y13 Revision list February 2025 – Year 12 knowledge will be expected in addition to this list!

Circular motion

Centripetal acceleration

Thermal Physics

Specific Heat Capacity

State changes

The Gas Laws

Ideal Gas Laws

Kinetic Theory of Gases

Gravitational Fields

Field Strength and Potential

Newton's Law of Gravitation

Planetary Fields and Satellite Motion

Electric Fields

Field patterns, field strength and potential

Coulomb's Laws

Point charges

Magnetic fields

Conductors in mag field

Moving charges in a mag field

Charged particles and circular motion

Nuclear Physics

Radioactivity – alpha, beta, gamma, decay, isotopes, nuclear radius, half life

Nuclear Energy – energy and mass, binding energy, fission and fusion, thermal nuclear reactors