

Year 10 Physics Preview Sheet

Exam Board: AQA Physics Year 10 and 11

Energy

- Energy Stores and systems
- Energy Changes
- Power
- Conservation and Dissipation of Energy
- Efficiency
- National and Global Energy Changes
- Conservation of Energy
- Momentum

Electricity

- Static Charge, Electricity and Fields
- Current, Resistance and Potential Difference
- Resistors and circuits in series and parallel
- DC and AC
- Mains Electricity
- Power and Energy Transfer in Appliances
- National Grid

Particle Model of Matter

- Density of Materials
- Change of State
- Internal Energy
- Temperature Change and specific heat
- Specific and Latent Heat Capacity
- Particle motion I Gases
- Pressure in Gases (Triple only)
- Increasing Pressure of a Gas (Triple and HT only)

Atomic Structure

- The structure of the Atom
- Mass and atomic number and isotopes
- Development of the model of the Atom
- Nuclear Radiation
- Balancing Nuclear Equations
- Half Life and radioactive decay
- Radioactive contamination and Hazards
- Background radiation
- Applications
- Nuclear Fusion and Fission

Forces

- Resultant Forces, and motion
- Motion and Graphs of Motion
- Forces and Braking
- Terminal Velocity
- Forces and Elasticity
- Forces and Energy (G.P.E/P.E/E.P.E)
- Work Done
- Momentum

