

# Programme of Study



Subject: PHYSICS (Exam Board AQA)

Year: 9

## Autumn 1

### Energy transfers

- Energy stores and transfers
- Kinetic and potential energy stores
- Specific heat capacity
- Required practical 1: Specific heat capacity
- Power
- Conduction and convection
- Reducing Unwanted energy transfers
- Required practical 2: Reducing energy transfers
- Efficiency

## Autumn 2

### Energy resources

- Energy resources and their uses
- Wind, Solar and Geothermal
- Hydroelectricity, Waves and Tides
- Bio-fuels and Non-renewables
- Trends in Energy Resource Use

## Spring 1

- Circuits
- Circuits, Current and Potential Difference
- Resistance and I-V Characteristics
- Required Practical 4: I-V Characteristics
- Series Circuits
- Parallel Circuits
- Required Practical 3: Investigating Resistance
- LDRs and Thermistors

## Spring 2

- Domestic Electricity
- Electricity in the home
- Power and Energy Transfer
- The National Grid

## Summer 1

**Static Electricity (Triple)**

- Electric Fields (Triple)
- Revision for end of year exam

**Summer 2**

- **Particle Model of Matter**
- Density and States of Matter
- Required Practical 5: Measuring Density
- Internal Energy and Changes of State
- Specific Latent Heat
- Particle Motion in Gases