



# Gunnersbury Catholic School

## GCSE Combined Science: Physics



Exams

Revision for Exams

**P13 Electromagnetism**

- Magnetic fields
- Magnetic fields of electric currents
- The motor effect



**P12 Electromagnetic waves**

- The electromagnetic spectrum
- Light, infrared, microwaves and radio waves
- Communications
- Ultraviolet waves, X-rays and gamma rays
- X-rays in medicine

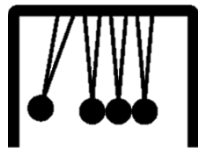
**P11 Wave properties**

- Nature of waves
- properties of waves
- Reflection and refraction



**P10 Force and motion**

- Force and acceleration
- Weight and terminal velocity
- Forces and braking
- Momentum
- Forces and Elasticity



YEAR 11

**P8 Forces in balance**

- Vectors and Scalars
- Forces between objects
- Resultant forces
- Centre of mass
- Resolving forces



**P5 Electricity in the home**

- Alternating current
- Cables and plugs
- Electrical power and potential difference
- Electrical currents and energy transfer
- Appliances and efficiency

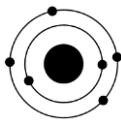


**P9 Motion**

- Speed and distance-time graphs
- Velocity and acceleration
- Analysing motion graphs

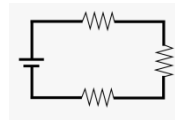
**P6 Molecules and matter**

- Density
- States of matter
- Changes of state
- Internal energy
- Specific latent heat
- Gas pressure and temperature



**P7 Radioactivity**

- Atoms and radiation
- Discovery of the nucleus
- Alpha, beta and gamma radiation
- Half-life



**P4 Electric circuits**

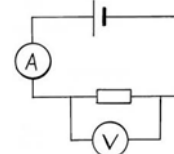
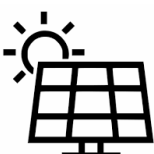
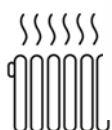
- Current and charge
- Potential difference and resistance
- Component characteristics
- Series and parallel circuits



YEAR 10

**P2 Energy Transfer by heating**

- Conduction
- Specific Heat capacity
- Heating and insulating buildings



**P1 Conservation and dissipation of energy**

- Changes in energy stores
- Conservation of energy
- Energy at work
- Gravitational potential energy
- Kinetic and elastic potential energy
- Energy dissipation
- Efficiency
- Electrical Appliances
- Power

**P3 Energy resources**

- Energy demands
- Energy from wind and water
- Power from the Sun and the Earth
- Energy and the environment
- Big energy issues

YEAR 9

welcome