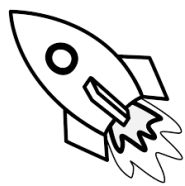




Gunnersbury Catholic School

GCSE Physics



Revision for Exams

Exams

P16 Space

- Formation of a solar system
- Life cycle of stars
- Planets, satellites and orbits
- The expanding universe
- The beginning and future of the universe

P15 Electromagnetism

- Magnetic fields
- Magnetic fields of electric currents
- Electromagnets in devices
- The motor effect
- The generator effect
- Transformers

P14 Light

- Reflection
- Refraction
- Light and colour
- Lenses

P13 Electromagnetic waves

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

P12 Wave properties

- Nature of waves
- properties of waves
- Reflection and refraction
- Sound waves
- Uses of ultrasound
- Seismic waves

P10 Force and motion

- Force and acceleration
- Weight and terminal velocity
- Forces and braking
- Momentum
- Impact forces
- Safety
- Forces and Elasticity

P11 Force and pressure

- Pressure and surfaces
- Pressure in a liquid
- Atmospheric pressure
- Upthrust and floatation

YEAR 11

P8 Forces in balance

- Vectors and Scalars
- Forces between objects
- Resultant forces
- Moments
- Levers and gears
- 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

P7 Radioactivity

- Atoms and radiation
- Discovery of the nucleus
- Alpha, beta and gamma radiation
- Half-life
- Nuclear radiation in medicine
- Fission and fusion

P6 Molecules and matter

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

YEAR 10

P2 Energy Transfer by heating

- Conduction
- Specific Heat capacity
- Heating and insulating buildings

P4 Electric circuits

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

P3 Energy resources

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

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

YEAR 9

welcome