



# Gunnersbury Catholic School

## Science: Physics

### Electromagnetism

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



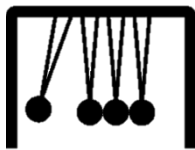
### Assessments

### Electromagnetic waves

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

### Force and motion

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



### Wave properties

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



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### Forces in balance

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



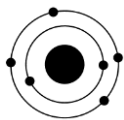
### Electricity in the home

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



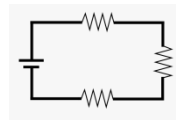
### Motion

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



### Radioactivity

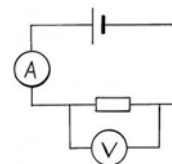
- Atoms and radiation
- Discovery of the nucleus
- Alpha, beta and gamma radiation
- Half-life



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welcome



### Electric circuits

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