

Year 11 AP 1 – Science

How to revise Science:

Memorise the facts

- Make flash cards
- Produce mind maps
- Write the information in a book

Practice answering questions

- Use online tests
- Use Sparxscience
- Use BBC bitesize multichoice tests at the end of units

Physics Foundation

- Isotopes
- Alpha, beta, gamma radiation
- Interpreting graphical data
- Half life calculations

- Circuit symbols and circuit diagrams
- Calculation of charge flow
- Calculating resistance and units
- Relationship between potential difference and current for a filament light
- LEDs vs filament lamps

- Gravitational and kinetic energy
- Kinetic energy calculations
- GPE calculations

- Frequency of UK mains electrical supply
- Electrical plugs
- Using the physics equations sheet to select the correct equation
- Power, potential difference and current equation
- Calculation of current to 2 significant figures
- Calculate the specific latent heat of vaporisation
- Calculation of efficiency and advantages of efficient electrical appliances

- Energy store changes
- Combustion of fuels
- Renewable vs non renewable energy sources and environmental impacts of their use

- Investigating specific heat capacity
- Calculating specific heat capacity

Physics Higher

- Energy store changes
- Combustion of fuels
- Renewable vs non renewable energy sources and environmental impacts of their use

- Investigating specific heat capacity
- Calculating specific heat capacity

- Circuit symbols and circuit diagrams
- Using the physics equation sheet to select the correct equation
- Calculating resistance
- Fixed resistor current vs potential difference graphs

- Radioactivity
- Radioactive equations
- Half-life calculations from graphs
- Uses of radioactivity

- Potential difference and frequency of the UK mains electrical supply
- Electrical plugs
- Direct vs alternating current

- Calculate density
- National grid efficiency
- Energy stores and transformation