

Bramhall High School Physics



A level Sciences – Biology, Chemistry and Physics
(Need grade 6 and above and grade 6 in Maths)



BTEC Science
(Need Grade 5 in Science)



Other post 16 options – Apprenticeships, other A level subjects, other BTEC subjects, other training, College.

End of year exams!



- Electromagnetic induction
- Generators
- Transformer calculations
- Microphones

P14

- Particles model
- Density
- Changing state
- Specific heat capacity
- Specific Latent heat

- Gas temperature & pressures
- Gas pressures & volume
- Gas pressure calculations
- Work & temperature

- Bending materials
- Stretching springs
- Elastic & inelastic

- Pressure calcs
- Pressure in fluids
- Pressure
- Upthrust

- Transformers
- National Grid
- Transformer calcs

P13

- Motors
- Loudspeakers
- Magnets and fields
- Electromagnetism
- Magnetic forces

P12

- Charges & electrostatics
- Dangers of electrostatics
- Electric Fields
- Uses of electrostatics

- Energy and heating from a circuit
- Energy and power in circuits
- Power in circuits
- Domestic electricity
- Electrical Safety

P11

- Circuit symbols
- Series circuits
- Parallel circuits
- Current & P.D rules in series
- Current & P.D rules in parallel

moments

P10

- Energy and charge in circuits
- Series resistors
- Parallel resistors
- Special resistors

P10

- EM spectrum
- EM properties
- EM uses and dangers

- Radiation
- Temperature
- Climate change

- History of the atom
- Atomic structure
- Working out p.e.n
- Electron orbits

YEAR

11

Force vector diagrams

P8 and 9

- Solar System
- Gravity
- Orbits
- Life cycle of stars
- Redshift
- CMBR
- Big-Bang
- Steady State
- Heliocentric
- Geocentric

P7

- Radiation in medicine
- Nuclear fusion
- Nuclear fission

Dangers of radioactivity

Using radioactivity

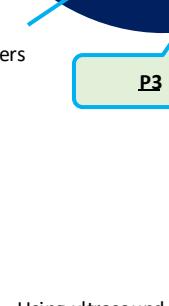
National Curriculum Compliant

YEAR
10

- Momentum
- Stopping distances
- Collisions
- Crash safety

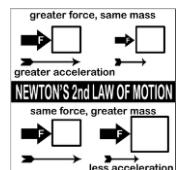
- Vectors and scalars
- Speed and d/t graphs
- Acceleration
- Speed/time graphs

- Electromagnets
- Factors & uses
- Electric field
- Electrostatics



P3

- Resultant forces
- force diagrams
- Newton's laws
- Mass, weight
- gravity



P2

- Moments
- Levers
- Gears

- Force fields & Electromagnets

YEAR
9

Sound

P3

Sound

Sound