

PHYSICS



KS2

Gravity, air resistance, levers, Magnets. Light, Sound, Space



Year 8

Unit 6 – Top Gear
Unit 1 - MasterChef
Unit 2 - Fireworks



Year 10

P1 – Energy
P2 – Electricity
P3 - Particle model
P4 – Atomic Structure



Year 12

Physics – Mechanics and materials



Degrees

Engineering
Theoretical Physics



Year 7

Unit 3 – Titanic
Unit 6 – Leaving Earth
Unit 1 – Not all Scientists
Unit 4 – Shipwrecked
Unit 2 – 999



Year 9

Physics – Energy
Chemistry – Energy changes
Separate Physics - Space



Year 11

P5 – Forces
P6 – Waves
P7 – Magnets
P8 – Space



Year 13

Physics – Thermal
Physics, Fields, Engineering
Physics – Thermal, Astrophysics, Medical, Turning points, Electronics



Careers

Pilot
Engineer

CHEMISTRY



KS2

S, I, g

Evaporation,
condensation



Year 8

Unit 2 - Fireworks

Unit 4 – Materials and
recycling



Year 10

C1 – Atomic structure,

C2 – Bonding

C3 – Quantitative Chemistry

C4 – Chemical Changes

C5 – Energy changes



Year 12

Biology – Molecules

Chemistry – Physical,
organic and inorganic

Physics – Radiation



Degrees

Analytical
chemistry

Medicinal
chemistry



Year 7

Unit 1 – Becoming a
scientist

Unit 3 - Titanic

Unit 4 – Shipwrecked

Unit 5 – Earth in Danger



Year 9

Bonding,

Atoms and
Periodic table



Year 11

C6 – Rate of reaction

C7 – Organic Chemistry

C8 – Chemical Analysis

C9 – Chemistry of the Atmosphere

C10 – Using resources



Year 13

Physics – Thermal,
Nuclear, Turning points
Chemistry – Physical,
organic, inorganic



Careers



- Analytical
chemist
- Pharmacist

BIOLOGY



KS2

Plants – parts and functions

Animals – digestion, nutrition, skeleton



Year 8

Unit 1 – Masterchef

Unit 3 – Down on the farm



Year 10

B1 – Cell biology

B2 – Organisation

B3 – Infection and response

B4 – Bioenergetics



Year 12

Biology – Substance exchange, Cells, Genetic information



Degrees

Medicine

Human Biology

Marine Biology

Microbiology

Cell Biology



Year 7

Unit 1 – Not all Scientists

Unit 2 – ggg

Unit 4 – Shipwrecked

Unit 6 – Leaving Earth



Year 9

Cell biology

Animal Organisation



Year 11

B5 – Homeostasis and response

B6 – Inheritance, variation and evolution

B7 – Ecology



Year 13

Biology – Energy Transfers, Responses to change, Genetics
Physics – Medical Physics

Careers



- Medicine
- Physiotherapist
- Vet