

# PHYSICS



## KS2

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



## Year 7

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



## Year 8

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



## Year 9

Physics – Energy  
Chemistry – Energy changes  
Separate Physics - Space



## Year 10

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



## Year 11

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



## Year 12

Physics – Mechanics and materials



## Year 13

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



## Degrees

Engineering  
Theoretical Physics



## 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



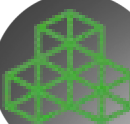
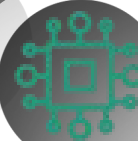
## Year 7

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