

Learning Journey: Combined Science

Cycle 2

- Hormonal control
- Electro-magnetism
- Transformers
- Review of core practicals
- Retrieval and revision of all content
- Exam preparation

Revision and GCSE Exams

Courses
Careers
Skills
Real World

GCSE Science is an entry requirement for a majority of Post-16 courses

Psychologist, Ecologist, Vet, Lawyer, Anthropologist, Biochemist, Archaeologist

Problem solving, critical thinking, ICT literacy, collaboration, adaptability, self-management

Asking/answering questions about your world and making decisions based on evidence

Cycle 1

- Exchange and transport
- Chemical calculations
- Fuels and combustion
- Force and extension
- Atmosphere science
- Energy in reactions

Year 11

Cycle 3

- Electrolysis
- Health and immunity
- Radioactivity
- Reactivity
- Dynamic equilibrium

Cycle 2

- Inheritance and DNA structure
- Evolution and genetic engineering
- Acids and alkalis making salts
- Density
- Particle model of matter

Cycle 2

- Cell structures and microscopy
- Photosynthesis and plant function
- Groups of the periodic table
- Wave properties
- Refraction
- Uses of the electro-magnetic spectrum

Cycle 3

- Transporting substances
- Enzymes in digestion
- Mass calculations
- Rates of reaction
- Forces and momentum

Cycle 1

- Cell division
- The nervous system
- Bonding and structure
- Electric circuits
- Power and electrical safety

Year 10

Cycle 1

- Ecosystems
- Material cycles
- States of matter
- Separating mixtures
- Energy stores
- Motion

Year 9

Cycle 3

- Digestion and enzymes
- Resistance and electrical safety
- Acids and alkalis
- Health and disease
- The rock cycle

Cycle 2

- Cell division
- Solar System
- Inheritance
- Evolution
- Groups of the periodic table
- Density
- Ecosystems

Cycle 2

- Reproduction
- Puberty
- Forces
- Separating mixtures

Cycle 3

- Current electricity
- Chemical reactions
- Respiration
- Plants and Photosynthesis
- Motion

Cycle 1

- Wave properties
- Wave interactions
- Transporting substances
- The structure of atoms and reactivity
- Magnetism

Year 8

Cycle 1

- Energy stores and transfers
- Energy resources
- Particle model of matter
- States of matter
- Life processes
- Cell biology

Year 7

- Living things and their habitats
- Animals including humans
- Evolution and inheritance
- Properties and changes of materials
- Light
- Electricity
- Forces
- Earth and space

Year 5+6

AO1	AO2	AO3
Demonstrate knowledge and understanding of:	Apply knowledge and understanding of:	Analyse information and ideas to:
<ul style="list-style-type: none">• scientific ideas;• techniques and procedures	<ul style="list-style-type: none">• scientific ideas;• techniques and procedures	<ul style="list-style-type: none">• interpret and evaluate;• make judgements & draw conclusions;• improve experimental procedures