

# Learning Journey: Combined Science

<b>Courses</b>	GCSE Science is an entry requirement for a majority of Post-16 courses
<b>Careers</b>	Psychologist, Ecologist, Vet, Lawyer, Anthropologist, Biochemist, Archaeologist
<b>Skills</b>	Problem solving, critical thinking, ICT literacy, collaboration, adaptability, self-management
<b>Real World</b>	Asking/answering questions about your world and making decisions based on evidence

**Cycle 2**

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

**Revision and GCSE Exams**

**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 and 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 2**

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

**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**

- 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**

**Year 5+6**

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

**A01**

**Demonstrate knowledge and understanding of:**

- scientific ideas;
- techniques and procedures

**A02**

**Apply knowledge and understanding of:**

- scientific ideas;
- techniques and procedures

**A03**

**Analyse information and ideas to:**

- interpret and evaluate;
- make judgements & draw conclusions;
- improve experimental procedures