

CEC 5 year Learning Journey: Combined Science

Cvcle 2

- Hormonal
- Electromagnetism
- Transformers
- Review of core
- Retrieval and revision of all
- Exam preparation

Revision and GCSE **Exams**

Courses

Careers

Skills

Real World

Psychologist, Ecologist, Psychologist, Vet, Lawyer, Anthropologist, Biochemist.,

GCSE Science is an entry requirement for a

majority of Post-16 courses

Archaeologist Problem solving, critical thinking, ICT literacy,

collaboration, adaptability, self-management Asking/answering questions about your world

and making decisions based on evidence

Cvcle 1

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

Year 11

Cvcle 3

- Electrolysis Health and immunity
 - Radioactivity Reactivity
- Dynamic equilibrium

Cvcle 2

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

Cycle 2

- Cell structures
- Photosynthesi s and plant
- Groups of the periodic table
- Wave properties
- Refraction
- Uses of the magnetic spectrum

Cycle 3

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

Year 10

Cycle 1

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

Cycle 1

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

Year 9

Cycle 3

- Density
- Resistance and electrical
 - Acids and alkalis

Cycle 2

- Cell division
- Inheritance
- Evolution
- Solar System

Cycle 2

- Reproduction
- Forces
- Separating

Cycle 3

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

Year

8

Cycle 1

- Wave properties
- Transporting substances
- Atoms and the periodic table
- Magnetism

Puberty

mixtures

- Motion

Cycle 1

- Energy stores and transfers Energy resources
 - Particle model of matter
 - States of matter
 - Life processes Cell biology
- Year
- Diet and lifestyle
- We are dinosaur hunters
- We are evolving
- Let it shine
- Electrifying
- Classifying critters



Apply knowledge and understanding of:

- scientific ideas;
- techniques and procedures

AO₃

Analyse information and ideas to:

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

A01

Demonstrate knowledge and understanding of:

- scientific ideas;
- techniques and procedures

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