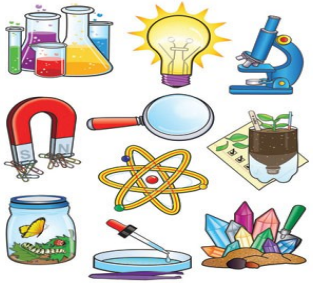
Science - Separates

KS4 Curriculum Overview



Year 10

Why does matter stick together?

Structure & Bonding (inc. Nanoparticles) and Quantitative Chemistry

How can we solve the worlds energy crisis? (b)

Electricity (inc. Charges & Fields),

Chemical Reactions and Electrolysis & energy Changes (inc. Cells & Batteries)

How will we treat future diseases?

Disease (inc. Monoclonal Antibodies & Plant Diseases) and Matter & Radioactivity (inc. Fission & Fusion).

Year 11

How do we use forces everyday? (b)

Forces (inc. Moments, Impact Forces, and Forces & Pressure).

How do we use forces everyday? (a)

Rates of Reaction and Equilibrium.

How do we stay alive?

Respiration & Photosynthesis, Nerve & Hormonal Control (inc. The Brain & The Eye) and Homeostasis in Action.

What is planet Earth's future?

Organic Chemistry (inc. Organic Reactions & Polymers), The Earth's Atmosphere & Resources (inc. Using our Resources) and Ecology (inc. Decomposition & Impact of Change.

How could we communicate with life on other planets? & How did the universe begin?

Waves (inc. Sound, Seismic & Light) Electromagnetism (inc. Generators and Transformers) & Space.

GCSE Exams

What evidence is there to support evolution?

Genetics and Reproduction, including DNA Structure & Protein Synthesis, Gene Expression & Mutation, Cloning and Evolution .

Online Resources
Click the apps

Microsoft Teams

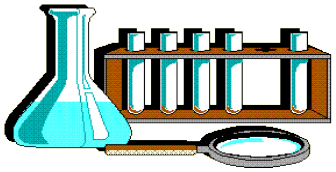
CENTURY

gcsepod education on demand

BBC Bitesize

AQA Realising potential

Working Scientifically, Maths Skills and Apparatus & Techniques are covered throughout the units of work in line with the AQA Combined Science (Trilogy) Specification.



Cardinal Langley RC High School

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