

# 'Legacy' Curriculum Road Map : Biology

(All year groups to follow new 'BEST' Sequence from September 2025)



CLAYTON HALL  
ACADEMY



16+

REVISION and EXAM PREPARATION  
Based on Question Level Analysis (QLA)

A

Assessment  
Point Mock  
P2

Biotic  
Abiotic  
Eutrophication  
Pollution  
Carbon dioxide

BIG IDEA -Variation and Evolution  
Adaptation  
Ecosystem  
Ecosystem  
Biome

11

A

Assessment  
Point Mock  
P1

Effect of humans and  
the environment

Adaptation and Independence  
Organising an Ecosystem

Inheritance and Evolution

Chlorophyll  
Carbon Dioxide  
Starch  
Glucose  
Energy  
Mitochondria

Negative Feedback  
Endocrine System  
Hormones  
Glands  
Adrenaline

Species  
Evolution  
Homrone  
LH  
FSH  
Oestrogen

A

Assessment  
Point

B12 - Triple  
only  
Homeostasis

Preventing and  
treating disease

Photosynthesis and  
Respiration

A

Assessment  
Point

Human  
nervous system

Hormonal Coordination  
Reproduction

Communicable  
disease

Risk factor  
Communicable  
Non-communicable

Tissue, organ system  
Stomach  
Enzyme  
pH  
Active site

Organelle  
Magnification  
Resolution  
Electron Microscope  
Active transport  
Osmosis

10

A

Assessment  
Point

Organisation and the  
digestive system  
Organising plants and animals

A

Assessment  
Point

Cell structure and Transport  
Cell division and growth

Communicable  
Non-communicable  
Cancer  
Malignant/benign

health  
Dietary needs  
Disease  
Lifestyle  
Lungs

DNA  
Gene  
Chromosome  
Inheritance

9

8

Food and breathing  
Plants

A

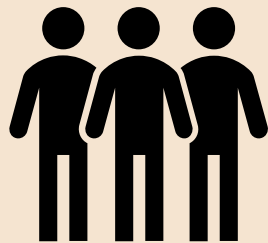
Assessment  
Point

Unicellular Organisms  
Genetics

A

Assessment  
Point

BIG IDEA - 'Health and disease'  
Disease  
Symptom  
Bacteria  
Virus  
Antibiotic



BIG IDEA - 'Heredity'  
Variation  
Inherited  
Environmental  
Characteristic

BIG IDEA - 'Organisms and  
their environment  
Biotic and Abiotic factors  
Population  
Community  
Ecosystem

A

Assessment  
Point

Variation  
What are Health and Disease  
Changes within an Organisms Life time

A

Assessment  
Point

Cell Biology  
Inheritance and Genome  
From Cells to Organ Systems

7

BIG IDEA - 'Heredity and Life  
Cycles'

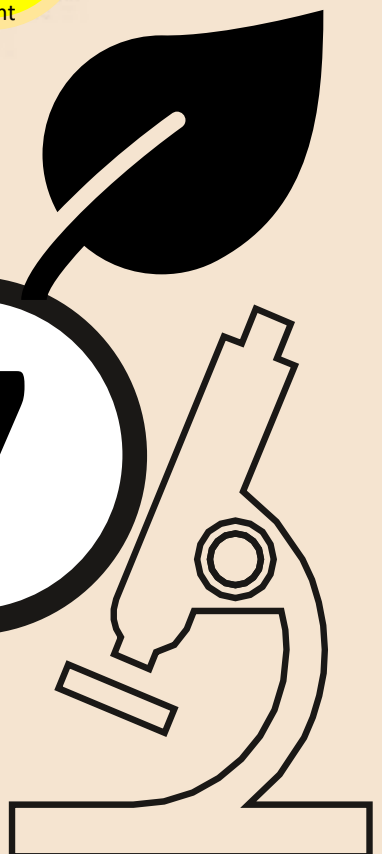
Reproduction  
Puberty  
Life Cycle  
Fertilisation

This is the legacy Curriculum Sequence for Science during the transition to 'BEST' Sequence which will be in place fully by September 2025.

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BIG IDEA - 'Cellular basis of life'

Microscope  
Cell  
Organelle  
Magnification  
Unicellular



# 'Legacy' Curriculum Road Map : Chemistry

(All year groups to follow new 'BEST' Sequence from September 2025)



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Composites  
Polymers  
Alloys  
Oxygen  
Water

Triple only  
Using our  
resource

**A**

Assessment  
Point Mock  
P2

REVISION and EXAM  
PREPARATION

**16+**

Using the Earth's  
resources

Air Composition  
Atmosphere

Hydrocarbon  
Alkane  
Alkene  
Bond  
Viscosity  
Volatility

**BIG IDEA- Chemical Reactions**  
Hydrocarbons  
Fractional Distillation  
Cracking  
Fuels  
Alkenes (Triple)  
Carboxylic Acids (Triple)

**A**

Assessment  
Point Mock  
P1

Our Atmosphere

**11**

**A**

Assessment  
Point

Organic chemistry  
Chemical Analysis

Triple  
only C10  
Organic  
Reaction  
and C11:  
Polymers



Mole  
Formula mass  
Physical change  
Chemical change  
Balanced

Reaction  
Exothermic  
Endothermic  
Bond

Rates of  
Reaction

**A**

Assessment  
Point

Rate  
Collision  
Temperature  
Catalyst  
Product

Structure  
and Bonding

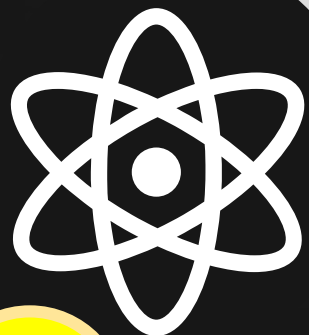
**A**

Assessment  
Point

Chemical  
calculations

**10**

Energy Changes



**BIG IDEA- Particles and structure**  
Ionic bond  
Covalent  
Metallic

Physical change  
Chemical change  
Reactant  
Product  
Equation  
Balanced

**A**

Assessment  
Point

Atomic structure  
The Periodic table

Earth and  
atmosphere

**9**

Reactivity

**A**

Assessment  
Point

**BIG IDEA – Chemical Reactions**  
Properties and materials  
Conduct  
Strength  
Density  
Chemical change



Element, compound  
mixture  
Group  
Period  
Symbol

Property  
Conduct  
Ductile  
Malleable  
Brittle

Understanding Chemical Reactions

**8**

The Periodic Table

Metals  
and their uses

**A**

Assessment  
Point

**BIG IDEA – Chemical Reactions**  
Properties and materials  
Element  
Compound  
Solute  
Solvent

**BIG IDEA-Particles and  
Structure**  
Particle model  
Dissolving  
Distillation

**BIG IDEA –Substances and Properties**  
Property  
Polymer  
Ceramic  
composite



**A**

Assessment  
Point

Elements and Compounds  
Chemical Changes and Solubility

**A**

Assessment  
Point

Properties and Materials  
Substances and mixtures

**7**

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# 'Legacy' Curriculum Road Map : Physics

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