

Key concepts in biology

Students will extend their knowledge about the components of cells, they will learn about specialised cells and the basics of enzymes.

Collaborative - Throughout their learning, students will advance their ability to seek opportunities to receive response to their work, as well as listen to the views of others and work well in teams.



Health, disease and the development of medicines

Pupils will study the different forms of diseases, how they are spread and the basics of our immune systems.

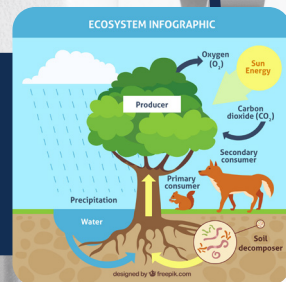
REALISING

Automaticity

The ability to use some skills with such ease as they no longer require active thinking.

Ecosystems and material cycles

In this topic, students learn about the interaction of organisms with their environment and about our effect on the planet.



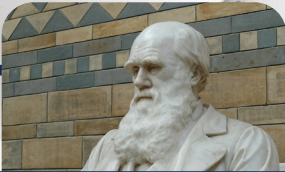
Year
10

GCSE Biology



Genetics

The fundamentals of DNA and inheritance.



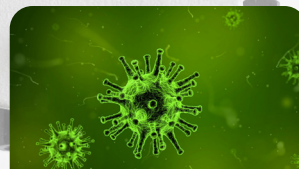
Natural selection and genetic modification

In this topic, students will learn about evolution, the evidence for evolution and how/why cells can be genetically modified.

META-THINKING

Self regulation

The ability to monitor, evaluate and self-correct.



Health disease and the development of medicines

Diseases, the development of medicines and the basics of our immune system.

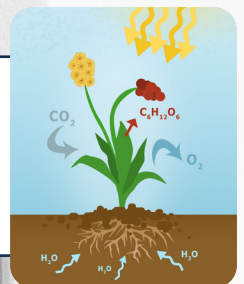


Connection finding

The ability to use connections from past experiences to seek possible generalisations.

Plant structures and their functions

The structure of plants and how they are adapted to carry out photosynthesis.



Animal coordination, control and homeostasis

In this topic, students learn about hormones, their role in signalling in the body and how the body maintains its internal environment through homeostasis.

ANALYSING



Precision

The ability to work effectively within the rules of a domain.

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Ambition Confidence Success
Everyone Every Lesson Every Opportunity

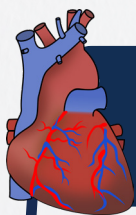
GCSE Biology

Year
11



Animal coordination, control and Homoeostasis

How animals respond to external stimuli, how hormones control the body and how a constant internal environment is maintained.



Exchange and transport in animals

In this topic, students learn about the movement of substances in organisms and the factors which affect this movement.



Critical or logical thinking

The ability to deduct, hypothesise, reason and seek supporting evidence.



Meta-cognition

The ability to knowingly use a wide range of thinking approaches and to transfer knowledge from one circumstance to another.

HARD WORKING



The ability to train and prepare through repetition of the same processes in order to become more proficient.



Ecosystems and material cycles

Learning about the environment and our impact on it, specifically, students will learn about biodiversity.

GCSE Exams

At the end of Year 11, students are assessed by 2 exams for GCSE Biology. Each exam is 1h45m in duration and worth 50% of the overall grade.

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