

IGCSE Biology

Overview

In an ever-changing, increasingly technological world, this program aims to assist students in developing sufficient knowledge and understanding to participate in society as confident, technologically-able citizens. With a mentor, students will broaden their biological knowledge and cover a wide range of topics that relate to biological processes – from the smallest cells to the largest ecosystems. Through investigating and studying various real-world situations, students will be able to develop their data analysis and evaluation skills, helping to enhance their report writing technique. As students participate in this program, they will learn about the scientific method and the ethical concerns and limitations that are apparent in conducting research in the biological field of science.

Objectives

- Develop a more comprehensive knowledge of the scientific method
- Improve analytical and evaluative skills
- Enhance overall knowledge of life at all levels
- Acquire sufficient knowledge to become confident citizens in a technological world
- Develop presentation and report writing technique

Structure

- Reflect on current knowledge of the range of topics that Biology covers and identify strengths and weaknesses
 - Develop a personalised curriculum
- Investigate Biology studies and theories in the world today
 - Real-world examples
 - Scientific method (usefulness and limitations)
 - Ethical concerns
 - Limitations of scientific endeavours
- Collaboratively develop data analysis skills
 - Critical thinking and evaluation skills
- Practice reporting primary and secondary data in the form of a report
 - Scientific writing style
- Exam practice
 - Past papers
 - Planning and structuring responses
 - Analysing and evaluating sources

