

Cambridge IGCSE

Biology 0610

Understand living things, from cells to ecosystems.

Understanding the subject

Biology helps you understand how living things work and how they interact with their surroundings. You will connect small structures, such as cells, with larger systems, such as organs and ecosystems. Everyday questions about health, plants and habitats become opportunities to use scientific ideas.

Why does your pulse change when you exercise? What helps a seed grow into a healthy plant? Biology gives you ways to investigate questions like these. Instead of relying on a guess, you learn to make observations, compare conditions and look for evidence.

What your learning will look like

Area of learning	What this means in practice
Cells and organs	Connect structures with the jobs they perform in living organisms.
Energy and living things	Explain how organisms obtain and use energy.
Inheritance	Connect inherited information with differences between organisms.
Ecosystems	Explore how organisms interact with one another and their environment.

These examples introduce the subject. Open Syllabus Overview for the complete topic map and any qualification options.

Skills you will develop

You will practise reading biological diagrams and explaining processes in a clear sequence. You will organise observations in tables and use results to support conclusions. A strong explanation connects what you observed with a biological idea, rather than simply describing a result.

A useful habit

Ask: What is the evidence, and how does it support my explanation? Clear reasoning matters more than guessing an answer.

Putting ideas into practice

Imagine comparing seeds under different conditions to investigate germination. Use the same type and number of seeds in each group. Change one condition at a time and keep other relevant conditions alike so that the comparison is fair. Record how many seeds germinate over the same period.

You can then compare the results and explain the pattern using biological ideas. If results differ from your expectation, consider the conditions and the quality of your evidence. This is an illustration of the learning approach, not an assignment to complete now.

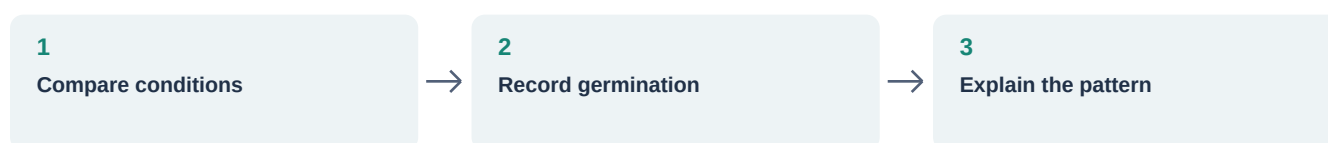


Figure 1. A simple sequence for turning a question into a reasoned explanation.

Future study and career connections

Biologists investigate living systems, while ecologists study organisms and habitats. Laboratory technicians support investigations, and healthcare professions draw on biological knowledge. The subject can help you discover whether you enjoy careful observation, practical investigation or explaining how living things work.

These are possible directions, not jobs awarded by this qualification. Specialist careers usually require further study, training and sometimes professional registration.

Your next step

Use this course to build foundations for further Biology and explore your interests in health, the environment and life sciences. You do not need to choose a career now. When considering future courses, check their entry requirements because these vary between institutions.

Next, open **Syllabus Overview** in the course menu to see the full subject map. Notice which areas interest you and which ideas are new to you.

Keep the purpose in mind

This introduction helps you see why the subject matters and how you will learn. It is not the full syllabus or an assessment guide. Continue to Syllabus Overview, then Assessment Overview, for those details.

Reference

Based on the seven-slide course introduction and the Cambridge syllabus for 2026-2028. [Read the official Cambridge syllabus](#). Practical examples and career connections are illustrative.