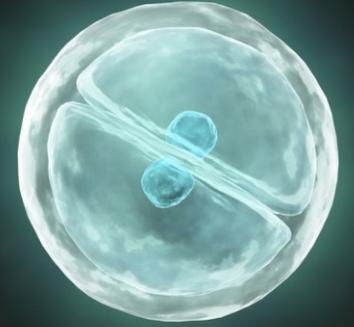


BIOLOGY

Cambridge Curriculum

*Biology is the scientific study of life, and just like life,
biology is a rich and diverse field of study.*

Why choose the *Cambridge curriculum*?



- These international qualifications are **recognised** by the world's best universities and employers.
- Content is created by subject experts, rooted in academic rigour and reflect the **latest educational research**.
- We develop Cambridge learners who are *confident, responsible, reflective, innovative and engaged* – equipped for success in the modern world.
- The final exam is on all the material from the 3 years of study so students **learn to be responsible and learn to assimilate all the information** over the course of the Biology syllabus.

Why choose ***BIOLOGY IGCSE?***

Biology is versatile and ever-changing making it a study subject that is full of excitement, beauty and wonder.

- Students gain an:
 - Understanding of how **biology affects everyday life**
 - Ability to **use data to interpret phenomena**
 - Ability to **evaluate scientific material** on the internet, in newspapers and magazines and on television.
 - Ability **to recognise the usefulness (and limitations) of the scientific method** and how to apply it to everyday life.
 - Ability to **develop accuracy, precision, objectivity, integrity, enquiry, initiative & inventiveness**
 - **Appreciation of and concern for the environment**
 - Understanding of the **scientific skills essential for both further study and everyday life.**
 - Understanding of **practical laboratory skills**

Objectives



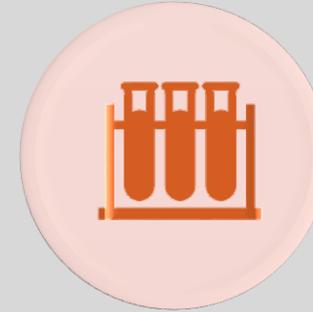
KNOWLEDGE ABOUT

- Scientific phenomena, facts, laws, definitions, concepts & theories
- Scientific vocabulary, terminology & conventions (including symbols & units)
- Scientific apparatus & safety in using them



SKILLS & ANALYSIS FOR

- Problem-solving and handling information
- Locating, selecting, organising & presenting information from different sources
- Manipulating numerical data
- Using information to draw inferences
- Presenting explanations for phenomena
- Making predictions & hypotheses

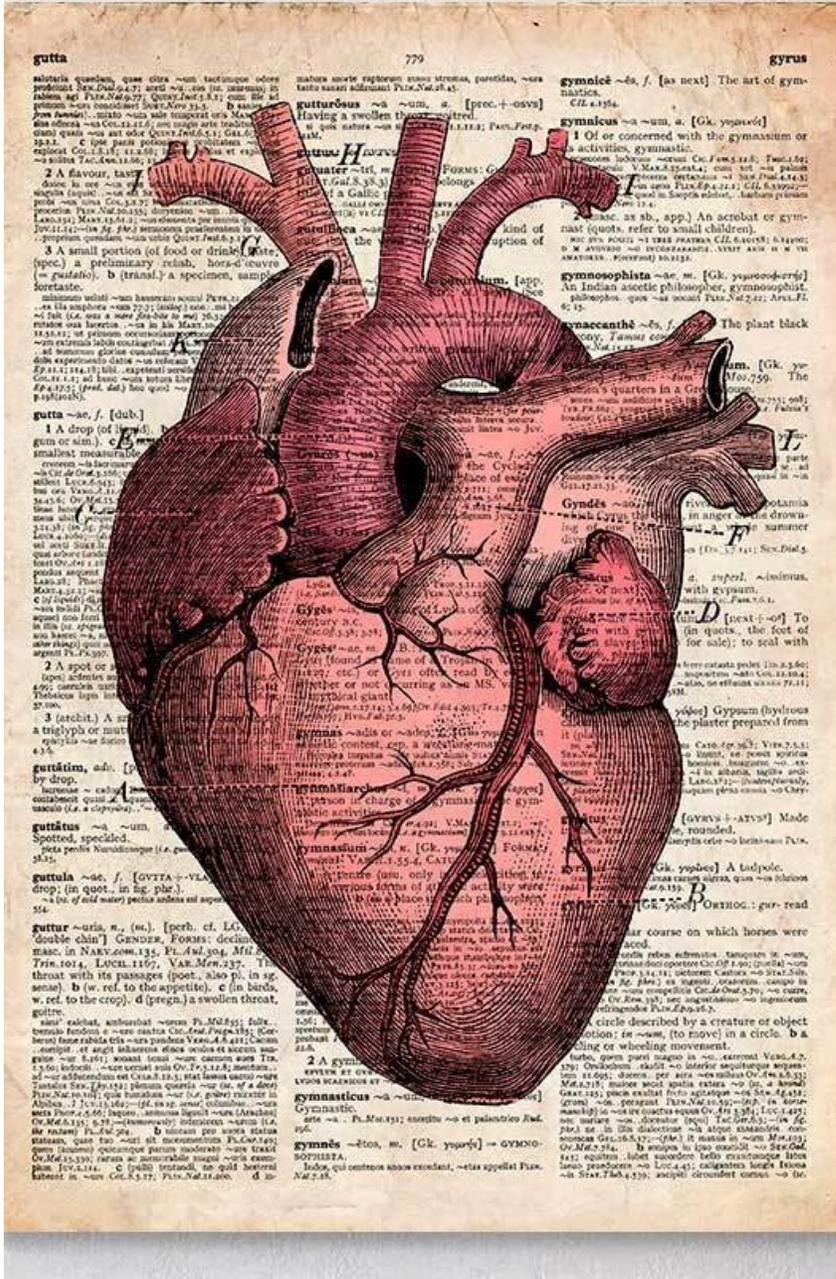


EXPERIMENTAL SKILLS & INVESTIGATIONS

- How to safely use instruments and materials
- Plan experiments
- Record observations
- Interpret and evaluate data
- Evaluate methods & suggest improvements

Why is this course a perfect fit for students in Italy?

- Biology **integrates perfectly with the Italian subject SCIENZE**, where some topics are only touched upon.
- The students become more responsible. The IGCSE exams are **serious, objective and evaluated by Cambridge in the UK**.
- It has a **different approach to learning**: students must actively participate and evaluate data.
- It is based on **the scientific method** where one acquires knowledge through observing, formulating hypotheses, testing, and refining these hypotheses based on the results.
- Improved **English language** skills as the course is taught by mother tongue professors.



In conclusion

- We hope to inspire students to become **curious scientists** by exploring the **world of living organisms**, their physical structure, chemical processes, molecular interactions, development and evolution.
- Biology is very versatile, developing skills that are relevant in different careers or Higher Education courses, such as:
 - **Medicine**
 - **Scientific research (chemistry, microbiology, biotechnology)**
 - **Marine biology**
 - **Pharmacology**
 - **Dentistry**
 - **Medical journalism**
 - **Veterinary science**
 - **Zoology**
 - **Botany**
 - **and Teaching and Education..... just to name a few!**