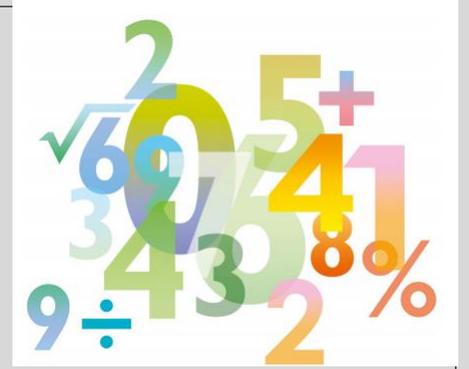


*Cambridge IGCSE
Mathematics 0580*

Cambridge Curriculum

The development of mathematical knowledge as a key life skill, and as a strong basis for more advanced 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 2 years of study so students **learn to be responsible and learn to assimilate all the information** over the course of the Mathematics syllabus.

Why choose *MATHEMATICS IGCSE*?

The aims are to enable students to:

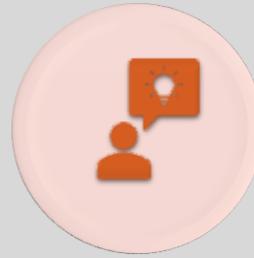
- Develop an **understanding of mathematical principles, concepts and methods**
- Develop a **feel for number** and understand the **significance of the results obtained**
- Apply mathematics to **everyday situations**
- **Analyse** and **solve problems**, present the solutions clearly, and check and interpret the results
- **Develop the ability to apply** mathematics in other subjects, particularly science and technology
- **Develop the ability to reason logically**, make deductions and inferences, and draw conclusions
- Acquire a foundation for **further study of mathematics** or for **other disciplines**

Objectives



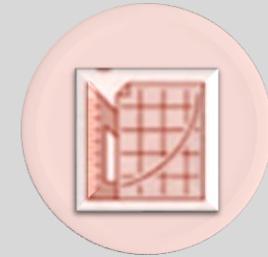
KNOWLEDGE ABOUT

- Numbers
- Algebra and graphs
- Coordinate geometry
- Mensuration
- Shape and space
- Geometry and Trigonometry
- Vectors and transformations
- Probability
- Statistics



SKILLS & ANALYSIS FOR

- Recalling and applying mathematical knowledge, terminology and definitions
- Organizing, processing and presenting written information accurately (in tables and graphs)
- Performing calculations and procedures by suitable methods
- Using scientific calculators
- Estimating and approximating
- Using geometrical instruments
- Applying mathematical skills in problem solving approach

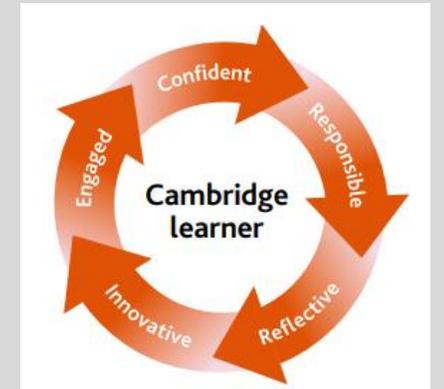


EXTENDED MATHEMATICAL SKILLS

- Understanding of mathematical techniques
- Communicate mathematically when solving problems
- Interpret and evaluate data
- Evaluate methods & suggest improvements

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

- Cambridge IGCSE Mathematics 0585 **integrates perfectly with the Italian subject Matematica**, 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 and active students** by exploring the **world of mathematical concepts and models**.
- A certified standard level in Mathematical skills is relevant in different careers or Higher Education courses, such as:
 - *Engineering*
 - *Aerospace Engineering*
 - *Physics*
 - *Astrophysics*
 - *Medicine*
 - *Scientific research (chemistry, microbiology, biotechnology)*
 - *Statistics*
 - *Computer science*
 - *and Teaching..... just to name a few!*

