



CAMBRIDGE MATHEMATICS

FOUNDATION PHASE/GRADE 8

We are using the Cambridge syllabus for our Foundation Phase. We have compared the IEB (Grade 8) and Cambridge syllabus and they are very similar. "Out of the Box" thinking is a key element for our Foundation Phase. At the end of the year, our students can choose to follow the IEB or Cambridge syllabus.

IGCSE LEVEL

This level is a 2 year course and follows the Cambridge syllabus. You can decide to write the Core or Extended Mathematics Paper. The exam will be evaluated in the UK by the Cambridge Examination Board.

AS LEVEL

AS Mathematics is composed of Pure Mathematics with either Mechanics or Statistics (the applied mathematics).

Some of the topics included are:

- Pure Mathematics: algebra, coordinate geometry, calculus, vectors, trigonometry.
- Mechanics: forces and equilibrium, Newton's laws of motion, energy, work and power.
- Statistics: descriptive statistics, probability, probability distributions.

AS Mathematics aims to give students a deeper understanding of mathematical techniques. The students develop skills to enable them to apply these techniques to logical analysis of problems.

AS Mathematics provides background for related subjects and is a solid foundation of further study. Many careers and study options in the science, business and engineering fields are solidly grounded by AS Mathematics, for example actuarial science, mechanical engineering and economics.



World Class Education. Unlocking the Future.

We offer both Cambridge and IEB curriculum and examinations.

college@summerhill-school.co.za | MAIN OFFICE & ADMISSIONS: (011) 468 5986

www.summerhill-school.co.za