

Uncapping the CAPS Mathematics

Online Self-Paced Course



Are you a new or experienced **Maths teacher** looking to upskill and earn 15 SACE Professional Development (PD) points at the same time?

Are you too busy to attend a course or workshop?

[St Augustine College of South Africa](http://www.staugustine.ac.za), a leader in delivering quality education, is very excited to have launched its online academic offering. Together with Learnalot.com, the popular [Uncapping the CAPS Mathematics course](#) is now an online course that you can complete in your own time. You can complete the course on any computer, tablet or smartphone, all you need is internet access. At the end of the course a digital certificate of completion will be awarded.

Specifically designed for experienced and new maths teachers, this SACE registered course is aligned to the CAPS curriculum for Grades R-12 and includes the following:

- ✓ 4.5 hours on-demand video
- ✓ 40 Articles
- ✓ 40 Downloadable resources
- ✓ Access on any computer, tablet or smartphone via internet
- ✓ 15 SACE Professional Development (PD) points
- ✓ Certificate of completion

Wilfrid Cardinal NAPIER OFM, Patron Archbishop Jabulani NXUMALO OMI, Grand Chancellor

Company Registration No 1997/020522/08 NPO - 043-665 PBO - RG/01114/07/05

Directors: Professor G ABRAHAM Mr M J ANTONIE
Professor D G KOURIE Ms E MAEPA Ms K H MOHAFA
Ms L PHALATSE Bishop T G ROSE Mr B P SCALLAN (Chairman)

This course curriculum is intended for all teachers who teach Mathematics, focusing on four broad key mathematical concepts:

The Concept of Number:	The Emergence of Algebra:
<ul style="list-style-type: none"> • Representing Numbers • Hindu-Arabic Numbers • Addition, Formal Addition • Subtraction, Formal Subtraction • Multiplication, Division, Fractions • Different, Perfect & Prime Numbers • Cryptography, Modular Arithmetic • The RSA System 	<ul style="list-style-type: none"> • The Origins of Algebra • The Arabian Notation • Cubic & Quartic Equations • The New Algebra • Analytical Geometry • Graphing Equations • Special Curves • Complex Numbers
The Concept of Geometry:	The Age of Analysis:
<ul style="list-style-type: none"> • What is Geometry? • Early Geometry • Thales & Pythagoras • The Golden Ratio • The Geometry of Euclid • Euclid’s Propositions • Non-Euclidian Geometry • Archimedes • Three Classical Problems 	<ul style="list-style-type: none"> • The Dawn of Analysis • Precursors to Calculus • Harmonic Series • Pascal & Huygens • Newton & Leibniz • The Leibniz Solution • Trigonometric Functions • Exponential Functions • Logarithmic Functions

Each of the concepts is viewed from a historical perspective, set against the backdrop of the Curriculum And Policy Statement for mathematics Grades R-12. The course is endorsed by the South African Council for Educators (SACE) for 15 Professional Development (PD) points.

Take the hassle out of professional development, click [here](#) to register for the Uncapping the CAPS Mathematics Course for Teachers.

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