

IB MATHEMATICS: ANALYSIS AND APPROACHES SL
(Year 1 and Year 2)

COURSE DESCRIPTION FROM THE INTERNATIONAL BACCALAUREATE ORGANIZATION

This course recognizes the need for analytical expertise in a world where innovation is increasingly dependent on a deep understanding of mathematics. This course includes topics that are both traditionally part of a pre-university mathematics course (for example, functions, trigonometry, calculus) as well as topics that are amenable to investigation, conjecture and proof, for instance the study of sequences and series at both SL and HL, and proof by induction at HL.

The course allows the use of technology, as fluency in relevant mathematical software and hand-held technology is important regardless of choice of course. However, Mathematics: analysis and approaches has a strong emphasis on the ability to construct, communicate and justify correct mathematical arguments.

Mathematics: analysis and approaches: Distinction between SL and HL

TEXTBOOK

IB Mathematic: analysis and approaches, Standard Level, Oxford University Press
ISBN 9780198427100

2-YEAR SYLLABUS

- Topic 1 – Number and algebra
- Topic 2 – Functions
- Topic 3 – Geometry and trigonometry
- Topic 4 – Statistics and probability
- Topic 5 – Calculus

End of year 2 – 2025 IB examinations – required

- Paper 1 (no calculator) Thursday, May 15, afternoon session
- Paper 2 (calculator) Friday, May 16, morning session

HOMEWORK

Homework will be given almost every day and should be uploaded to Canvas before the next school day starts. While homework is not required, practice is essential for success. I will track homework for reassessment purposes. **If homework is not being completed consistently, parent contact will be made.**

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GRADING EACH SEMESTER

Major Assessments (Tests, Projects)	40%
Minor Assessments (Quizzes, IB Practice Problems, etc)	60%
End of each semester – cumulative exam	10%, with semester average 90%

IB Mathematics: Analysis & Approaches SL Grading Policy

Homework: Homework is required but is necessary to develop the () 16 (i) 2 (y) 2. 9 t) 2. 6 (o l) - 2 m) - 2. 7 n t iyase 2. 9

IB Math Analysis & Approaches SL

Period _____

I have read the syllabus and understand what is required of me for this school year.
I will perform all my work to the best of my abilities.

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