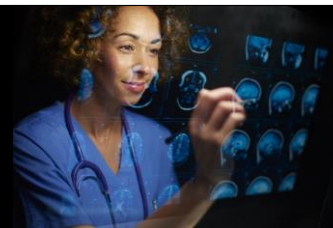# IB Diploma Mathematics

Mathematics is a broad spectrum which all pupils have studied since the moment they entered school. There are many aspects of mathematics but here at TMS we focus on the interpretation and analysis of mathematical situations.

Studying mathematics helps to make sense of the world and this course is aimed at doing just that through 12 fundamental concepts which are used to promote an understanding of the world around us and to see the beauty in the everyday. Without mathematics the world would be very limited and so this course aims to delve into the beauty and relevance of mathematics.

It's about identifying patterns and using the mathematical knowledge to solve problems which would be faced in the real world.

Ultimately, mathematics makes the world go round.

Curriculum

Term	1	2	3	4	5	6
Year 12	Number and Algebra Functions	Functions and their applications	Geometry and Trigonometry	Statistics / probability	Statistics / probability IA	IA
Year 13	Calculus	Calculus IA	REVISION	REVISION	IB Exams	

Assessment

Higher Level	Paper 1 2 hours	Paper 2 2 Hours	Paper 3 1 Hour	Internal assessment 20%
Standard Level	Paper 1 1.5 Hours	Paper 2 1.5 Hour	N/A	Internal assessment 20%

What to expect
Independent learning: lots of investigations to develop a personal level of understanding
To use all of your GCSE maths and extend it further
Learn how to debate mathematically.

Entry requirements:
Higher Level: Mathematics grade 7 or above
Standard Level: Mathematics grade 5 or above