



Year 7 - KS3

IB MYP MATHEMATICS

Aims and Objectives

At Key Stage 3, mathematics is taught in sets. The curriculum is aligned to the MYP framework for Years 7. The MYP mathematics framework encompasses number, algebra, geometry, statistics and probability.

Students in the MYP learn how to represent information, to explore and model situations, and to find solutions to familiar and unfamiliar problems. These are skills that are useful in a wide range of arenas, including social sciences and the arts.

The objectives of MYP mathematics encompass the factual, conceptual, procedural and metacognitive dimensions of knowledge.

Each objective is elaborated by a number of strands; a strand is an aspect or indicator of the learning expectation which students will be assessed on.

Together these objectives reflect the knowledge, skills and attitudes that students need in order to use mathematics in a variety of contexts (including real-life situations), perform investigations and communicate mathematics clearly.

What is the significance of mathematics in the MYP?

MYP mathematics aims to equip all students with the knowledge, understanding and intellectual capabilities to address further courses in mathematics, as well as to prepare those students who will use mathematics in their studies, workplaces and everyday life.

Mathematics provides an important foundation for the study of sciences, engineering and technology, as well as a variety of application in other fields.

What does this course involve at Key Stage 3?

Year 7:

- Place value: Addition, subtraction, multiplication and division
- Geometry: 2D shape in a 3D world
- Fractions
- Basic Algebra
- Percentages and Pie Charts

Year 7 Mathematics cont.....

How will you be assessed?

Assessment practices in the MYP aim to:

- support student learning by providing consistent feedback on the learning process
- provide opportunities for students to demonstrate transfer of skills across disciplines
- develop critical and creative thinking skills
- assign the most accurate achievement level for student performance, rather than averaging achievement levels over a given period of time
- assess student understanding at the end of a course

Students will be assessed under four different criteria:

- Criterion A: Knowledge and Understanding
- Criterion B: Investigating Patterns
- Criterion C: Communication
- Criterion D: Real-world Application

Each criterion is divided into various achievement levels. The level descriptors for each band describe a range of student performance in the various strands of each objective. At the lowest levels, student achievement in each of the strands will be minimal. As the numerical levels increase, the level descriptors describe greater achievement levels in each of the strands.

The four MYP criteria will be summatively assessed twice a year (Modules 2 and 4) and a final grade will be provided at the end of the year (Module 6). However, students will be assessed for their Attitude towards Learning every module.

Useful Websites

My Maths: <http://www.mymaths.co.uk/>

BBC Bitesize: www.bbc.co.uk/bitesize/

Hegarty Maths: <https://hegartymaths.com/>