MYP Foundation Math

Aims

The aims of teaching and learning mathematics are to encourage and enable students to:

- Recognise that mathematics permeates the world around us
- Appreciate the usefulness, power and beauty of mathematics
- Enjoy mathematics and develop patience and persistence when solving problems
- Understand and be able to use the language, symbols and notation of mathematics
- Develop mathematical curiosity and use inductive and deductive reasoning when solving problems
- Become confident in using mathematics to analyse and solve problems both in school and in real-life situations
- Develop the knowledge, skills and attitudes necessary to pursue further studies in mathematics
- Develop abstract, logical and critical thinking and the ability to reflect critically upon their work and the work of others
- Develop a critical appreciation of the use of information and communication technology in mathematics
- Appreciate the international dimension of mathematics and its multicultural and historical perspectives.

Assessment

Students' work will be assessed using the following MYP criteria. In mathematics, there are four criteria:

- Knowledge and understanding (1-8)
- Investigating patterns (1-8)
- Communication in mathematics (1-6)
- Reflection in mathematics (1-6).

Examinations

Internal end of semester exams. Examinations will be based upon MYP assessment practices.

Knowledge Content

- Algebraic expressions and integers
- Simple one-step equations
- Decimals and equations
- Factors, fractions and exponents
- Ratios, proportions and percents
- Equations and inequalities
- Geometric shapes and properties
- Right triangles
- Area and volume
- Linear functions and graphing.

Resources

– Davidson, M., Landau, S., McCracken, L., and Thompson, L. *Tools for a Changing World*. Prentice Hall, New Jersey, 2001.

Prerequisites

Completion of Grade 8 Math.

Credits

One Credit.