Mathematics 7 Course Outline

The main goals of mathematics education are to prepare students to:
- Use mathematics confidently to solve problems
- Communicate and reason mathematically
- Appreciate and value mathematics
- Commit to lifelong learning
- Become mathematically literate adults, using math to contribute to society

In addition to the mathematics curriculum, there will also be a component of the French Language in all aspects of this course. As students progress, they will learn the necessary vocabulary to be able to express themselves and apply what they have learned in a real-life setting.

Assessment standards

The mathematics content is organized into four strands: Number, Patterns and Relations, Shape and Space and Statistics and Probability. As the students work through the math program, they will be expected to use various mathematical processes. The following standards will be used in the assessment process. They will appear in PowerSchool GradeBook and on the term report cards. Parent/Guardians will be provided with a log-in to the parent portal so they can monitor their child's progress throughout each term:

● Number – apply an understanding of operations with numbers to solve problems
● Number – apply addition and subtraction operations to fractions with like and unlike denominators
● Number – apply an understanding of percent to solve problems
● Number – apply addition and subtraction operations using integers
● Patterns & Relations – use, extend and create mathematical patterns to solve problems using linear relations
● Shape & Space – demonstrate an understanding of circles
● Shape & Space – determine the area of triangles and parallelograms
● Shape & Space – describe the form of lines, shapes and objects and analyze their position
● Stats & Probability – apply understanding of theoretical and experimental probability
● Stats & Probability – collect, interpret and analyze data to solve problems
● Problem Solving & Reasoning - develop and apply new math knowledge and skills

Tentative Schedule :

Term 1 :
- Number Sense and Divisibility
    - operations with decimal numbers
- Percentage
    - solving problems using %
- Fractions
    - adding and subtracting
- Integers
    - adding and subtracting
- Cartesian Plane

Term 2 :
- Expressions and Equations
    - modeling and solving one-step equations
- Linear relations
    - graphs of linear relations, patterns in a table of values, linear relations
- Statistics
    - measures of central tendency (mean, median, mode)

Term 3 :
- Measurement
    - triangles, parallelograms, circles
- Geometry
    - translations, reflections and rotations
- Probability
    - experimental and theoretical

A variety of assessment methods will be used throughout the year, including but not limited to:

- in-class assignments
- exams
- homework assignments
- Final exam in June

Achievement Indicators

The level of understanding for each concept will be communicated using the following achievement indicators:

E – Excelling – Demonstrates exemplary performance in relation to the learner outcomes

P – Proficient - Demonstrates strong performance in relation to the learner outcomes

S - Satisfactory - Demonstrates adequate performance in relation to the learner outcomes

B – Beginning - Demonstrates basic performance in relation to the learner outcomes

L - Limited- Demonstrates limited performance in relation to the learner outcomes or incomplete understanding

Please note that if your child was absent from school and so was unable to be assessed for a particular concept, an assessment indicator of 'U' will be recorded.