Course Outline

Mathematics Grade 7

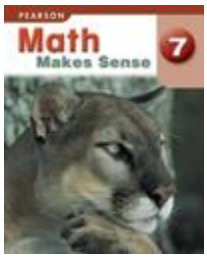
2023-2024

Teacher:

Melissa O'Keefe

Text Book:

Math Makes Sense 7



Mental Math is worked on throughout the year, in various units

Work will consist of:

Class/Homework (IMPORTANT)
Test/Quizzes / Assignments
Observations & Conversations

Expectation is to follow the school rules, come to class prepare to do work. Everything that is done on the board is a part of your notes and must be written down. **You are expected to bring your notebooks, textbooks, pencils and calculators every day**. Stay positive, work hard and respect yourself and others.

Extra help is between 2:00- 3:00 each Tuesday.

All HOMEWORK and NOTES are available on the school website http://blackville.nbed.nb.ca/

Click on the "Teacher's Page " ⟶ "M. O'Keefe"

PHONES **CANNOT** BE USED AS CALCULATORS

No Phones out in the classroom

There may be district assessments this year but the date and time has not been releases

On the following page you will see a list of topics, curriculum outcomes and timeline for the entire year.

Let's make this year a fun and successful MATHEMATICAL year.

A list of topics, curriculum outcomes and timeline for the entire year are:

Topics: (From Math Makes Sense 7 textbook)

Grade 7 Term 1	Term 2	Term 3
N6: Demonstrate an understanding of addition and subtraction of integers, concretely, pictorially, and symbolically. **(All Chapter 2)**	**N2:** Demonstrate an understanding of the addition, subtraction, multiplication, and division of decimals (for more than 1-digit divisors or 2- digit multipliers, the use of technology is expected) to solve problems. **(Ch3-Section 3.3 to 3.6)**	**N5:** Demonstrate an understanding of adding and subtracting positive fractions and mixed numbers, with like and unlike denominators, concretely, pictorially, and symbolically (limited to positive sums and differences) **(All Chapter 5)**
PR1: Demonstrate an understanding of oral and written patterns and their equivalent linear relations. **(Ch1- Section 1.3, 1.4, 1.5)**	**PR5:** Evaluate an expression given the value of the variable(s). **Review of Grade 6**	**PR6:** Model and solve problems that can be represented by one-step linear equations of the form $x + a = b$, concretely, pictorially, and symbolically, where a and b are integers. **(Ch6- Section 6.1 ,6.2, 6.3)**
PR2: Create a table of values from a linear relation, graph the table of values, and analyze the graph to draw conclusions and solve problems. **(Ch1- Section 1.6, 1.7, 1.8)**		**PR7:** Model and solve problems that can be represented by linear equations of the form: - $ax + b = c$ - $ax = b$ - $\frac{x}{a} = b$, $a \neq 0$ Concretely, pictorially, and symbolically, where a, b, and c are whole numbers. **(Ch6- Section 6.4, 6.5)**
SS1: Demonstrate an understanding of circles by: • describing the relationships among radius, diameter and circumference of circles • relating circumference to pi **(Ch.4- Section 4.1, 4.2)**	**SS2:** Develop and apply a formula for determining the area of: • triangles • parallelograms • circles. **(Ch.4- Section 4.3, 4.4, 4.5)**	**SS4**: Identify and plot points in the four quadrants of a Cartesian plane using integral ordered pairs. **(Ch8- Section 8.5)**
	SP 1 Demonstrate an understanding of central tendency and range by: • determining the measures of central tendency (mean, median, mode) and range • determining the most appropriate measures of central tendency to report findings. **(Ch.7- Section 7.1, 7.2)**	**SP5** Identify the sample space (where the combined sample space has 36 or fewer elements) for a probability experiment involving two independent events. **(Ch7-Section 7.6)**