

# Grade 7 Mathematics 2017-2018

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## **Course Description**

Welcome to Grade 7 Mathematics! This course is designed to cover a number of different forms of mathematics, which will allow you to better understand the math that you encounter in your everyday life.

Grade 7 Mathematics is comprised of four strands and within these four strands there are eight sub-strands.

## **Strand 1: Numbers**

*Numbers:* Develop Number Sense

## **Strand 2: Patterns and Relations**

*Patterns:* Use patterns to describe the world and solve problems.

*Variables and Equations:* Represent algebraic expressions in multiple ways.

## **Strand 3: Shape and Space**

*Measurement:* Use direct and indirect measurement to solve problems.

*3-D and 2-D Shapes:* Describe the characteristics of 3-D objects and 2-D shapes, and analyze the relationships among them.

*Transformations:* Describe and analyze position and motion of objects and shapes.

## **Strand 4: Statistics and Probability**

*Data Analysis:* Collect, display, and analyze data to solve problems.

*Chance and Uncertainty:* Use experimental or theoretical probabilities to represent and solve problems involving uncertainty.

## **MATERIALS NEEDED FOR THE COURSE**

Students MUST bring the following to every class:

A calculator

A pencil

A binder with loose leaf paper OR a lined notebook

Math Makes Sense 7 Textbook assigned at the beginning of the year

Math Makes Sense 7 Practice and Homework Book given out at the beginning of the year

A geometry set (including a protractor, a compass and a ruler)

## **CHAPTER ORDER (Subject to change)**

Chapter One: Patterns and Relations

Chapter Six: Equations

Chapter Two: Integers

Chapter Three: Fractions, Decimals, and Percents

Chapter Five: Operations with Fractions

Chapter Seven: Data Analysis

Chapter Four: Circles and Areas

Chapter Eight: Geometry

## EVALUATION

### Academic Achievement

Students will be evaluated on their:

#### Knowledge and Understanding

Demonstrate knowledge and understanding of grade-specific mathematical concepts and skills in each strand (numbers, patterns & relations, shape & space, and statistics & probability) within each reporting period.

#### Mental Math and Estimation

Student uses math knowledge and number facts to calculate mentally or estimate.

#### Problem Solving

Student applies knowledge, skill or understanding to solve problems.

### Learning Behaviours

Students will be evaluated on their:

Personal Management Skills: Uses class time effectively, works independently, completes homework and assignments on time

Active Participation in Learning: Participates in class activities, self assesses, and sets learning goals.

Social Responsibility: Works well with others, resolves conflicts appropriately, respects elf, other and the environment, contributes in a positive way to communities.

| <b>Mathematics</b>           |        |                              |       | Teacher:                         |        |        |        |
|------------------------------|--------|------------------------------|-------|----------------------------------|--------|--------|--------|
| <input type="checkbox"/> EAL |        | <input type="checkbox"/> IEP |       | <input type="checkbox"/> IEP     |        |        |        |
| Academic Achievement         | Term 1 | Term 2                       | Final | Learning Behaviours              | Term 1 | Term 2 | Term 3 |
| Knowledge and understanding  |        |                              |       | Personal management skills       |        |        |        |
| Mental math and estimation   |        |                              |       | Active participation in learning |        |        |        |
| Problem solving              |        |                              |       | Social responsibility            |        |        |        |
| Overall Grade                | %      | %                            | %     | Local Option                     |        |        |        |
|                              |        |                              |       | Local Option                     |        |        |        |
| Comments:                    |        |                              |       |                                  |        |        |        |

### IMPORTANT POINTS:

1. Students are responsible for all homework and notes which were missed while they were absent. Students are encouraged to ask a classmate upon returning to catch up on the materials covered during their absence. This course has many activities that will be done in class so it is best to miss as few classes as possible.
2. If a student has an excused absence during the day of a test, they will write the test the day of their return, either in class or at lunch. If you plan on being away, please inform the teacher ahead of time. With the new method of assessment, allowances have been made for students who underachieve on a test. Students are able to write a retest under these circumstances, within 3 days of the original test being returned. In order to be eligible to rewrite, students must make arrangements with the teacher to come in for extra help (either during lunch hour or afterschool).
3. Electronic device use is permitted in the classroom during specifically stated times ONLY. If electronic devices are not being used for educational purposes under the teachers instruction then they need to be put away and on silent or they will be taken until the end of the period.

## **DIVISION POLICIES:**

### Attendance

You are expected to attend all classes, every day. I understand that this may be nearly impossible, so you must provide notice to the school and teacher of your absence in advance whenever possible.

### Late Assignments

If you fail to complete an assignment, your parents will be notified and a secondary due date will be set. Should you fail to complete the assignment by the new due date, you will receive a zero. There will be some flexibility with respect to due dates in extenuating circumstances, such as prolonged illness or a death in the family.

PLEASE NOTE: Assignments from the beginning of the year will not be accepted days before the term ends.

### Academic Dishonesty

As you may have heard already today, academic dishonesty will not be tolerated in this school. If you are asking, “What is academic dishonesty?” the answer is simple – any type of cheating. This includes (according to Wikipedia)

**Plagiarism:** The adoption or reproduction of original creations of another author (person, collective, organization, community, including anonymous authors) without due acknowledgment.

**Fabrication:** The falsification of data, information, or citations.

**Deception:** Providing false information to an instructor —e.g., giving a false excuse for missing a deadline or falsely claiming to have submitted work.

**Cheating:** Any attempt to give or obtain assistance (like an examination) without due acknowledgment.

**Bribery:** or paid services such as giving certain test answers for money.

**Sabotage:** Acting to prevent others from completing their work. This includes cutting pages out of library books or willfully disrupting the experiments of others.

If you commit academic dishonesty, you will be required to meet with your teacher to discuss a reasonable consequence for your actions. Your parents will be notified. An example of a potential situation and solution could be completing a complimentary assignment which demonstrates the learning that was included in the primary assignment or test.