



Semester 1 & 2

Room: 9

Days 1-6: Period 3 (10:48 – 12:00)
Note: times may change Semester 2

Grade 8 Math

Course Code: 0080

Credit Value: none

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Prerequisites: none, although successful completion of K-7 math courses are strongly encouraged.

Required Materials and Recommended Resources:

Required: binder, pencils, eraser, lined paper, basic scientific calculator (students will NOT be allowed to use their device as a calculator)

Textbook (provided): MathLinks 8 (McAskill et. At.; McGraw-Hill Ryerson, 2008)

Other resources to be used as supplementary material

Course Description and Purpose

Grade 8 is designed to give students the skills required to move forward into Grade 9 math. The content of this course encourages the development of abstract mathematical thought processes needed for higher level math.

Goals of Course

The main goals of mathematics education are to prepare students to

- communicate and reason mathematically
- use mathematics confidently, accurately, and efficiently to solve problems
- appreciate and value mathematics
- make connections between mathematical knowledge and skills and their applications
- commit themselves to lifelong learning
- become mathematically literate citizens, using mathematics to contribute to society and to think critically about the world

Summary of Four Main Topics

Number Sense: develop number sense

Patterns and Relations: use patterns to describe the world and solve problems

Shape and Space: use direct or indirect measurements to solve problems

Statistics and Probability: collect, display, and analyze data to solve problems

Special Programming

Spiral Planning

Grade 8 math will follow a spiral curriculum. A spiral curriculum allows for units of study to be spread out throughout the school year, rather than ending once a chapter has been completed. This will provide students with opportunities to review taught content, and also improve their academic standing within that curricular area.

mRLC

Turtle River School Division is part of the Manitoba Rural Learning Consortium (mRLC). The purpose of being part of this team is to improve and track student understanding and ability of mathematic knowledge in various grades. The mRLC has developed a pacing guide with the essential outcomes taught between September and the end of January, and the other outcomes are covered later in the year. To help track student understanding of the material, there are 4 quizzes that students are asked to write. All four quizzes are based on the essential outcomes, and are meant to give students and the teacher a better understanding of what needs more review. In June, students are asked to write a Baseline Assessment, where the results are recorded by the division. *All parents/guardians have the option to allow their students to opt out of this baseline assessment.* This baseline and the quizzes will not count toward student grades.



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Schedule	Topics covered
September	
Review of Grade 7 Concepts	
Chapter 8: Integers	Exploring Integer Multiplication; Multiplying Integers; Exploring Integer Division; Dividing Integers; Applying Integer Operations
Chapter 6: Fraction Operations	Multiplying a Fraction and a Whole Number; Dividing a Fraction by a Whole Number; Multiplying Proper Fractions; Multiplying Improper Fractions and Mixed Numbers; Dividing Fractions and Mixed Numbers; Applying Fraction Operations
October	
Complete Chapter 6	
November	
Chapter 9: Linear Relations	Analyzing Graphs of Linear Relations; Patterns in a Table of Values; Linear Relationships
Chapter 10: Solving Linear Equations	Modelling and Solving One-Step Equations; Modelling and Solving Two-Step Equations with Division; Modelling and Solving Two-Step Equations with Multiplication; Modelling and Solving Two-Step Equations with Brackets
December	
Chapter 3: Pythagorean Relationship	Squares and Square Roots; Exploring the Pythagorean Relationship; Estimating Square Roots; Using the Pythagorean Relationship; Applying the Pythagorean Relationship)
January	
Chapter 2: Ratios, Rates, and Proportional Reasoning	Two-Term and Three-Term Ratios; Rates; Proportional Reasoning)
Chapter 5: Surface Area	Views of 3-D Objects; Nets of 3-D Objects; Surface Area of a Prism; Surface Area of a Cylinder)
February	
Complete Chapter 5	
Chapter 7: Volume	Understanding Volume; Volume of a Prism; Volume of a Cylinder; Solving Problems Involving Prisms and Cylinders
1st mRLC Quiz	
March	
Chapter 4: Understanding Percent	Representing Percents; Fractions, Decimals, and Percents; Percent of a Number; Combining Percents
2nd mRLC Quiz	
April	
Chapter 1: Representing Data	Advantages and Disadvantages of Different Graphs; Misrepresenting Data; Critiquing Data Presentation)
3rd mRLC Quiz	
May	
Chapter 11: Probability	Determining Probabilities Using Tree Diagrams and Tables; Outcomes of Independent Events; Determining Probabilities Using Fractions
Chapter 12: Tessellations	Exploring Tessellations with Regular and Irregular Polygons; Constructing Tessellations Using Translations and Reflections; Constructing Tessellations using Rotations; Creating Escher-Style Tessellations
4th mRLC Quiz	
June	
Review and Baseline Assessment	



Assessment

Student Evaluation

Formative Assessments:

- "Warm-up" assignments
- "Show you know" questions
- Spiral curriculum work
- mRLC Check-Ins, Quizzes & Baseline Assessment

Summative Assessments:

- Chapter Assignments
- Chapter Tests

Breakdown of Marks

Coursework (tests & assignments): 100%

Coursework will be marked using a key based on final answers and work shown.

Guidelines

Homework Policy

Homework will be assigned if/when:

- Students are not able to complete their assignments during class.
- Students are absent.

Incomplete Work

- Following the deadline of any assignment, the student's mark will be recorded as a zero. Upon completion of the assignment, it will be graded and recorded. At reporting periods, a final deadline will be given for the evaluations to take effect on the report card for that reporting period.

Extra Help

- If students need extra help, your teacher is available at lunch hour. Appointments can also be made for the morning or afterschool.

Plagiarism

"Students must understand that the tests/exams they complete and the assignments they submit as evidence of learning must be their own work and that cheating and plagiarism will not be tolerated..." (*Provincial Assessment Policy, K-12*)

"Academic dishonesty could result in one or all of the following: contacting the parents, documentation of the incident in the student's file, report this behavior on the report card, enforce loss of privileges for the student, disciplinary measures, redo the work and deduct marks for academic dishonesty.... If a student is found to be engaging in academic dishonesty, the principal will follow the school and division policy which may result in further consequences as deemed appropriate by the principal." (*TRSD Instructional policy manual*)

Classroom Expectations

- Attendance and Absence
 - Students are expected to attend class regularly.
 - Students who are absent for class are responsible for gathering missed work and asking questions. Notes for missed work will be available upon request
- All members of the classroom community are expected to be polite and respectful to all staff, students, and property in the classroom.
- Use of Personal Devices
 - Cell phones are not to be used during the school day unless use has been pre-arranged with staff/administration for the purpose of a specific learning plan or for medical need. Please refer to the student handbook for further details.



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I acknowledge that I have read the above information and have asked any clarifying questions to ensure that I understand the expectations of the course.

Student Signature: _____

Date: _____

Parent Signature: _____

Date: _____