**MATH 8**  **Mr. J. Schellenberg**

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**COURSE OVERVIEW:**

The goal of Junior High Mathematics is for students to develop a positive attitude toward math and have a base of knowledge and skills related to Numbers, Patterns and Relations, Shape and Space, and Statistics and Probability. Students should develop a positive attitude towards mathematics so that they can become confident to undertake the problems in this ever changing world, therefore experiencing the power and usefulness of mathematics. Also, students will experience mathematics through problem solving, technology, discussion, group activities, critical thinking and manipulatives.

**COURSE OUTLINE AND TIMELINE:**

The number of weeks to complete each topic is an approximation and may be changed at the discretion of the teacher.

# of weeks

Chapter 1 – Representing Data ….…………………………………………….……………………………….…..3-4

Chapter 2 – Ratios, Rates and Proportional Reasoning…..……….…………………………..…. 2-3

Chapter 3 – Pythagorean Relationship….…………………………………….……………………………... 4-5

Chapter 4 – Understanding Percent…………………………………….............................................. 3

Chapter 5 – Surface Area………………………………………………..……………………………………….………. 3

Chapter 6 – Fraction Operations…………………………………………….…………………………….………….. 4

Chapter 7 – Volume ……………………………………………………………..……….……………………….………..…… 3

Chapter 8 – Integers ………………….…………..…………………………………………….…………………..…... 3-4

Chapter 9 – Linear Relations…………………………………………………………………………….…….………….. 2

Chapter 10 – Solving Linear Equations ………………………………………………………….…………………. 4

Chapter 11 – Probability ………………………………………………………………………………….……………….. 1-2

REVIEW AND FINAL………………...……………………............................................ 2

Total………………………………………………………………………………………………….…... 34-39

**TEXT:** MATHLINKS 8

You are responsible for your text and should bring it to class every day (along with the other necessary supplies listed below). Please do not write in your text as you are *borrowing* it and are expected to return it in good condition at the end of the semester.

**REQUIRED MATERIALS:**

* binder with looseleaf paper
* 1 duotang (for Study Notes/Review)
* **pencil**, eraser, red pen, blue pen
* ruler
* compass and protractor
* package of graph paper (0.5 cm squares)
* SCIENTIFIC CALCULATOR (with exponent and square root functions)

BRING YOUR BINDER, PAPER/GRID PAPER, PENCILS/PENS/ERASERS, RULER AND CALCULATOR TO CLASS EVERY DAY!

**HOMEWORK AND ASSIGNMENTS:**

**Daily assignments and exercises are an integral part of this course.** Doing the assignments gives you a chance to make sure you understand the concepts presented in class. Math is cumulative so you must understand today’s work in order to do tomorrow’s. In general, the responsibility for learning and completing assignments is on you, the student. Time will be provided in class to work on assignments but **work not done in class must be completed at home**.

**MISSED CLASSES OR TESTS:**

If you miss a class, you are responsible for finding out what work you missed and completing all assignments. If you miss a test or exam, you are responsible for arranging a time to write the exam. Missed tests/exams are written during the students own time (not during class as too much new material is missed). Please approach me in advance if you know of specific times when you will be away.

**EXTA HELP:**

There will be weekly Math Help Sessions posted throughout the year. If you are having difficulty with material, please arrange a time (ahead of time) for extra help outside of class. I am available before school, after school and at noon.

**CLASSROOM EXPECTATIONS:**

1. **Be Respectful**

Respect involves the respect of you, your classmates and the learning environment. Our classroom is a place of learning and being respectful of the environment means working together to ensure that learning is possible for each student. Respect for your classmates requires compassion, kindness and good citizenship. Respect for yourself involves making choices that respect who you are as a learner and help you to be successful.

1. **Be Prepared**

This involves coming to class ON TIME and bringing with you all of the necessary supplies.

1. **Be WILLING to Learn**

Willingness to learn does not involve always knowing the right answer but instead requires a willingness to try. Coming to class with a willingness to learn requires a positive attitude and a great work ethic!

1. **ASK QUESTIONS!**

You are not necessarily going to understand everything in Math right away! In order to be successful, ask questions! Make sure you take the time to understand the concepts presented in class!

**EVALUATION:**

1. Report Card Marks
   1. Tests (Chapter Exams and Cumulative Tests) 65%
   2. Quizzes/Assignments/Homework 35%
2. Final Mark
   1. Course Work 75% (average of semesters marks)
   2. Final Exam 25%