# MATH 8 COURSE OUTLINE 

## INSTRUCTOR: MISS WYNESS

## RESOURCE:

MATH LINKS EIGHT, McGRAW-HILL RHYERSON, 2008

## COURSE OBJECTIVE:

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
- make connections between mathematics and its applications
- commit themselves to lifelong learning
- become mathematically literate adults, using mathematics to contribute to society.

Students who have met these goals will:

- gain understanding and appreciation of the contributions of mathematics as a science, philosophy and art
- exhibit a positive attitude toward mathematics
- engage and persevere in mathematical tasks and projects
- contribute to mathematical discussions
- take risks in performing mathematical tasks
- exhibit curiosity


## GENERAL EXPECTATIONS:

- REGULAR ATTENDANCE - After an absence it is YOUR responsibility to catch up on work that you missed. Students must discuss the making up of exams and quizzes with me immediately upon returning to school from an excusable absence.
- ARRIVE ON TIME - When you arrive to class, please take your seat and quietly wait for instruction. If lateness is unavoidable, please enter the classroom with a minimum of disruption.
- COME PREPARED - Please bring binder, textbook, pencils, calculators, etc. to class each day. All math is to be done in pencil. All handouts, quizzes, assignments, and exams are to be kept in order in a binder. These will assist you as a study guide.
- ASSIGNMENTS - Assignments must be turned in in a timely manner. If you need extra time for an assignment, please make arrangements with me.
- WORK HABITS - Class time will frequently be given to complete assignments. Please stay on task during these times. While I am providing instruction, I expect you to be listening and NOT talking. You may of course raise your hand to ask questions or make comments.


## UNIT 1: REPRESENTING DATA

*Dates are approximate
September 6 - September 24

- Advantages and disadvantages of different graphs
- Misrepresenting data

UNIT 2:

UNIT 3:

UNIT 4:

UNIT 5:

UNIT 6:

UNIT 7:

UNIT 8:

November 8 - November 19

- Squares and square roots
- Estimating square roots

UNDERSTANDING PERCENTS
November 22 - December 10
SQUARES AND SQUARE ROOTS

November 22 -December 10

- representing \% pictorially
- finding the percent
- converting fractions to \% to decimals
- applications and problems involving percent
- equivalent ratios and proportion
- rate, unit rates, and unit prices
- slopes

RATIOS, RATES AND PROPORTIONS October 18 - November 5

- Review rules of addition and subtraction of integers
- Multiplication and division of integers
- solving problems involving integers
- order of operations with integers

PYTHAGOREAN RELATIONSHIP
January 4 - January 21

- Pythagorean theorem
- applications and problems Pythagorean theorem

FRACTION OPERATIONS
January 24 - February 11

- Review addition and subtraction of fractions
- Multiplication of fractions
- Division of fractions
- Applications of the above skills
- Order of operations involving fractions


## PROBABILITY

February 14 - March 4

- Collecting data
- Making predictions
- Probability and independent events
- creating a table of values from a graph
- determining a table of values from an equation
- solving two step equations with parentheses
- using equations to solve problems
- Translations, reflections, rotations

UNIT 10:

UNIT 11:

UNIT 12:

UNIT 13:

FINALS:
June 20 - June 24

EVALUATION:
45\% Assignments/Quizzes
30\% Unit Exams
25\% Final Examination
Keep track of your marks as they will be posted online regularly. Our online marks system is used as a tool for teachers to communicate with students and parents about such things as attendance, marks, discipline, schedules, assignments, events, fees and graduation requirements.

