

SCHOOL: Broad Meadows Middle School
ADDRESS: 50 Calvin Road
PHONE #: 617 – 984 - 8723

SYLLABUS

TEACHER Elva Hazelton

COURSE/GRADE LEVEL Pre-Algebra

INSTRUCTIONAL MATERIALS

McDougal Littell Math Course 3, Connected Mathematics, Exemplars, Hands On Equations

MAJOR TOPICS*

I. Exploring Patterns

- Number Patterns and Operations
- Powers and Square Roots
- Order of Operations
- Variables in Expressions
- Tables and Graphs
- Patterns in Geometry and Technology

II. Investigations in Algebra

- The Distributive Property
- Combining like Terms
- One-Step Equations
- Model Verbal Expressions and Sentences
- Problem Solving Using Equations
- Simple Inequalities

III. Integers

- Integers and Absolute Value
- Adding, Subtracting, Multiplying, and Dividing Integers
- Problem Solving Using Integers
- Patterns in the Coordinate Plane

IV. Exploring the Language of Algebra

- Solve Equations Using the Distributive Property
- Solve Problems with Two or More Step Equations
- Use Formulas from Geometry to Solve Problems
- Scientific Notation

V. Geometry

- Perimeter, Area, Circumference
- Surface Area of Prisms and Cylinders
- Volume of Prisms, Cylinders, Pyramids, Cones and Sphere

VI. Percent, Proportion, and Probability

- Write Decimals as Percents and Percents as Decimals
- Write Fractions as Percents and Percents as Fractions
- Find a Percent of a Number
- Rates, Ratios and Proportions
- Solve Three Types of Percent Problems Using Proportions
- Use the Counting Principle and Pascal's Triangle to find the Probability of an Event
- Theoretical and Experimental Probabilities

VII. Real Numbers and Inequalities

- Squares, Square Roots, The Pythagorean Theorem
- Graph Inequalities, Solve Inequalities
- The Triangle Inequality

***ASSESSMENT TOOLS**

Rubrics
Projects
Notebooks
Interdisciplinary activities
Open ended questions
Word problems
Co-operative learning projects
Objective Tests/Quizzes
Essays
Presentations
FCAS for long essays
Attendance
Homework

***See Individual Student Education Plans or 504 Plans for modification where applicable.**

HOMEWORK EXPECTATIONS

Homework is given most nights. The homework is usually due the following day. It is graded on completion not accuracy. On time assignments are worth 3 points. One day late or incomplete is worth 2 points. Just answers or completed in pen is worth 1 point. Not done is worth 0 points. The students have one day to change their grade if they scored a 2, 1, or 0. At the end of the term, a homework average is computed based on the number of points earned divided by the possible number of points. This average replaces the lowest quiz grade in that the term. Homework is also completed in the notebook. The problem, any work needed, and the answer clearly written in pencil is expected with every assignment. Notebooks are a test grade.

GRADING POLICY

Each test counts as two test grades, homework replaces the lowest quiz score and counts as part of the notebook grade, writing assignments or projects are averaged as one test grade, quizzes are averaged to two test grades, one for each half of the term. At the end of the term, the final grade is based on the average of tests (30%), quizzes (25%), homework (10%), notebook (15%), projects and writing assignments 20%).

MAKEUP PROCEDURE

Students are given, five, (5) school days to make up work from when they are absent. The student may either see myself, or look on the white board in the class for the work missed. Arrangements will be made at the time of their return as to when missed tests can be taken after school.

GENERAL INFORMATION

Students need to have a notebook, text, agenda book, pencil and calculator for class each day. The Calculator of choice is the TI 30xIIs

Three of the four projects listed below are assigned in class, one each, in terms, two, three, and four.

--Creating a house floor plan -- Math-a-thon
--Tetrahedron -- Patterns

***Adjustments may be made in this syllabus to meet student needs.**