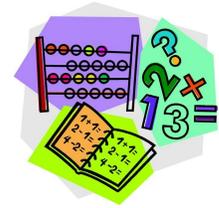


**Ms. Kolator**  
**8<sup>th</sup> grade Pre-Algebra**  
**Course Overview and Requirements**



**Contact Me!**

Ms. Kolator

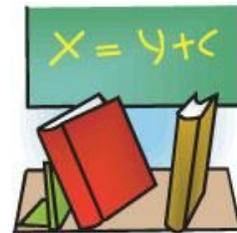
Phone: 973- 228-9115 Ext: 2213

Email: mkolator@staff.cwcboe.org

**Course Overview:**

Welcome to 8<sup>th</sup> grade Math! This course has been designed to meet the needs of middle school students with a variety of ability levels and learning styles. Some of the concepts that we will be learning this year are:

- **Real Numbers**-monomials, positive and negative exponents, scientific notation, roots
- **Equations in one variable**-solving and writing two-step equations, solving equations with variables on each side and multi-step equations.
- **Equations in two variables**-slope, graphing a line using intercepts, writing linear equations, and solving systems of equations by graphing and algebraically
- **Functions**-relations, linear functions, constructing functions, quadratic functions
- **Triangles and the Pythagorean Theorem**-Parallel Lines, polygons and angles, using the Pythagorean theorem
- **Transformations**-Translations, reflections, rotations, dilations
- **Congruence and Similarity**-Congruence, similarity and transformations, similar triangles and indirect measurement, area and perimeter for similar figures
- **Volume and Surface Area**-Volume of cones and spheres, surface area of cylinders and cones.
- **Scatter Plots and Data Analysis**-Scatter plots, two-way tables, lines of best fit, measures of variation



**You Will Need:**

- ✓ One notebook/binder for notes, problem of the day, and handouts.
- ✓ Textbook
- ✓ #2 Pencils

## Grading Policy:

- Tests, projects, and presentations are worth 50% of your marking period grade.
- Quizzes, class work, warm-ups and/or exit slips are worth 40% of your marking period grade.
- We will **typically** have a quiz or test on a weekly basis.
- Homework averages are worth 10% of your marking period grade.



## Homework Policy:

Homework is essential for students to practice the skills learned each day in class. Homework is checked for completion the day after it has been assigned (unless otherwise noted). Homework will be graded on a scale of 0-2 points. Two points will be earned if the assignment is fully completed, 1 point will be earned if half of the assignment is completed, and 0 points if the assignment is not completed at all. For marking periods one and two, assignments that are handed in late during that time will be given half credit. *No credit will be given for a homework assignment that is 3 or more days late!* For marking periods three and four, no late assignments will be accepted.



## Power School

I will be using Power School throughout the year to keep you updated on your grades. Please make sure to check the website often and if there are any questions, feel free to contact me. I will try my best to update Power School as soon as I have graded any new assignments that were handed to me and will update homework weekly. I do not have access to your user name/passwords for these accounts, however, so please contact the main office if you do not have this information.

## \*\*\*IMPORTANT\*\*\*

I am available before and after school every day for extra help. Please see me to set up a specific time or day. I will do my best to accommodate all schedules.

I am looking forward to a great 8<sup>th</sup> grade year! ☺  
Please **sign** and **return** by 9/11/15.

Student Signature: \_\_\_\_\_

Parent Signature: \_\_\_\_\_