

Grade 8 Mathematics

2017-2018 School Year

Mr. Jason Vajda

Message from the Teacher

Welcome to a new school year. I am pleased to have the opportunity to share my knowledge and experiences with your child in Grade 8 Mathematics. . My goals for this year are for each student to develop a positive attitude towards the subject, increase their mathematical literacy and fluency, be able to use multiple representations, connect concepts to other disciplines and real-world situations and develop the ability to communicate their thoughts clearly. Like any skill, mathematics is developed through practice and effort. The skills your child learns one day are not discarded the next; math is a set of building blocks, stacked upon each other and used regularly. Creating a solid understanding of these concepts ensures a good foundation for upper level math courses.

What topics we cover?

- created in line with the areas of focus for grade 8 Mathematics as identified by the Common Core State Standards
Unit 1 – Real Numbers – Understand Rational and Irrational Numbers, Compare and Order Rational and Irrational Numbers, Evaluate Square and Cube Roots, Solve Equations using Square and Cube Roots, Use Properties of Integer Exponents, Understand Scientific Notation.
Unit 2 – Analyze and Solve Linear Equations – Solve Multistep Equations (One Solution, No Solution, and Infinitely Many Solutions), Compare Proportional Relationships, Calculate Slope, Analyze and Graph Linear Equations.
Unit 3 – Use Functions to Model Relationships – Understand Relations and Functions, Compare Linear and Nonlinear Functions, Construct Functions to Model Relationships.
Unit 4 – Investigate Bivariate Data – Construct and Interpret Scatter Plots, Use Linear Models to Make Predictions, Interpret Two-Way Frequency Tables.
Unit 5 – Analyze and Solve Systems of Linear Equations – Solve Systems by Graphing, Substitution and Elimination.
Unit 6 – Congruence and Similarity – Transformations (Translations, Reflections, Rotations and Dilations), Understand Congruent and Similar Figures, Use Lines and Transversals to Name Angles and Find Angle Measurements.
Unit 7 – Pythagorean Theorem – Understand Pythagorean Theorem and its Converse, Apply Pythagorean Theorem, Find Distance in the Coordinate Plane.
Unit 8 – Surface Area and Volume – Find Surface Area of 3D figures, Find Volume of Cylinders, Cones and Spheres.

Textbook

enVisionmath 2.0 Grade 8

Materials

1. Scientific Calculator (TI-30XII)
2. Pencils
3. Two Notebooks (one Interactive Notebook – one Work Notebook)
4. Red Two Pocket Folder
5. Headphones - earbuds
6. Color Pencils, Pens or Markers
7. Ruler, Scissors and Glue
8. Highlighters

What is expected from me?

1. Come to class on time and prepared.
2. Be respectful to EVERYONE in class.
3. Actively participate in class EVERYDAY.
4. Try your hardest and limit distractions.
5. Phones are expected to be put away during class.

If you choose not meet these expectations, you are choosing to accept consequences associated.

What if I'm absent?

If you are absent or gone from class, check SCHOOLLOGY for what you missed and look in the Absent Work Folder for any needed papers. You are expected to make up any missing work in 2 days. If you miss a review day, you still must take the assessment on the assigned day. All previous assignments are due upon a student's return to school. Remember absences can affect your grade.

Teacher Grading Policy

Grades will consists of tests, quizzes, homework and class work which are assigned a point value. Quarter grades will be calculated by dividing the total number of points that you have earned by the maximum number of points that you could have earned. For example if you earned 600 points out of a possible 800 points, then you get $600/800 = 75\%$. All assessments will be posted on parent portal.

What if I need help?

AFTER SCHOOL EXTRA HELP - check board for availability - 3:05 to 3:25
ONLINE TEXTBOOK - use Pearson Realize - guided examples and videos
VIRTUAL NERD - online video help (website)
KHAN ACADEMY - online video help and practice (website)
GOOGLE - an amazing resource - search topic

Contact Me

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Communication between teachers, parents and students is essential for providing an effective learning environment. You are encouraged to share your questions/concerns at anytime by email, writing a note or calling the school.