

8th Grade Mathematics Syllabus

Students will participate in constructive discussions, complete unit projects, and traditional mathematics practice. Our end goal is that all students master the skills necessary to their future success in all walks of life, including mathematics. The classroom objectives will be listed in the classroom and on my mathematics site (<http://janyja.net>). All interested persons will be able to see the topics slated for instruction. I will also post links to sites that may help students prepare for future tests.

Indiana Standards (Students will...)

- know the properties of rational and irrational numbers expressed in a variety of forms. They understand and use exponents, powers, and roots.
- compute with rational numbers expressed in a variety of forms. They solve problems involving ratios, proportions, and percentages.
- solve simple linear equations and inequalities. They interpret and evaluate expressions involving integer powers. They graph and interpret functions. They understand the concepts of slope and rate.
- deepen their understanding of plane and solid geometric shapes and properties by constructing shapes that meet given conditions, by identifying attributes of shapes, and by applying geometric concepts to solve problems.
- convert between units of measure and use rates and scale factors to solve problems. They compute the perimeter, area, and volume of geometric objects. They investigate how perimeter, area, and volume are affected by changes of scale.
- collect, organize, represent, and interpret relationships in data sets that have one or more variables. They determine probabilities and use them to make predictions about events.
- make decisions about how to approach problems and communicate their ideas.

Grade Percentages		Letter Grades			
Class work	30%	97 – 100	A+	80-82	B-
Homework	20%	93-96	A	77-79	C+
Quizzes	10%	90-92	A-	73-76	C
Tests	25%	87-89	B+	70-72	C-
Exams	15%	83-86	B	0-69	F

Important Rules

- **All work** must be completed in pencil. (*Work done with pen will receive a grade of zero.*)
- Homework and class work must be submitted at the required time.
- I will drop one low grade from each category per quarter.

Please sign below and return this form signifying you reviewed requirements during our time together.

 Student signature & date

 Parent signature & date

This copy will remain on file during the school year.