

8th Grade Math Syllabus

Teacher: Mrs. Deana Hernandez

Tutoring: 7:15-7:45 am M-F in classroom or by appointment after school

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Textbooks: *Algebra 1, Pre Algebra, or Math Course 3; McDougal Littell*

Required Materials: 3-Ring Binder (1 $\frac{1}{2}$ "), 5 dividers, Spiral Notebook, Scientific calculator, and mechanical pencil, large book cover, and an eraser

Grading: All assignments are equally weighted

Overall Goals

1. Each student should be able to demonstrate the ability to understand and represent numbers, define relationships among numbers and number systems; understand meanings of operations and how they relate to one another; and compute fluently and make reasonable estimates.
2. Each student should be able to understand measurable attributes of objects and the units, systems and process of measurement; and apply the appropriate techniques, tools, and formula to determine measurements.
3. Students will be able to understand patterns, relations, and functions: represent and analyze mathematical situations and structures using algebraic symbols; use mathematical models to represent and understand quantitative relationships; analyze change in various contexts; and apply and adapt a variety of appropriate strategies to solve problems.
4. Students will analyze characteristics and properties of two-and-three dimensional geometric shapes and develop mathematical arguments about geometric relationships; specify locations and describe spatial relationships using coordinate geometry and other representational systems; apply transformations and use symmetry to analyze mathematical situations; and use visualizations, spatial reasoning, and geometric modeling to solve problems.
5. Students will formulate questions that can be addressed with data and collect, organize, and display relevant data to answer them; select and use appropriate statistical methods to analyze data; develop and evaluate inferences and predictions based on data; and understand and apply basic concepts of probability.