

6th, 7th, and 8th Grade Math Course Descriptions

Course Philosophy: Math promotes structure and order, promotes absolute truth, strengthens the mind, causes learning and trains the intellect. Children should be equipped to problem solve, so they can work out everyday problems, “precept upon precept, line upon line...” (Is. 28:10 KJV) Students will build concept upon concept in mathematics.

Time allotment: 49 minutes per day, 5 days a week

Course Goals: Students will learn and understand the basic principles of their course according to the California State Standards.

Areas to be evaluated: Students will be graded on homework given for each lesson. They will also be graded on Mid-Chapter quizzes and Chapter Tests. Students will also be graded at the end of the year on their Math Portfolio which is a project that we will build and work through together. Students will also receive grades periodically for notebook completion and accuracy.

Grading Categories

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| Classwork & participation: | 25% |
| Reflections: | 25% |
| Homework: | 25% |
| Project assignments/tests: | 25% |

Grading:

Classwork and Participation: Students will strive to earn 10 points each week (tracked using Class Dojo). This will be based on each student’s actions throughout the class periods during the week. Students are expected to: Follow Note-Taking procedures; Interact with peers during class discussions; answer questions when called upon, and follow classroom norms and expectations.

Homework: Worth up to 5 points for each homework assignment

Tests and Quizzes: Point values will vary

Reflections: Students will reflect on their chapter test grade and write a paragraph or two recapping their learning journey.

Grade specific content chart on next page.

| 6th Grade Course content: Sixth Grade Transitional Mathematics Textbook: <i>Course 1 Mathematics</i>, McDougal Liddell | 7th Grade Course content: Pre-Algebra Textbook: <i>Course 2 Mathematics</i>, McDougal Liddell | 8th Grade Course content: Algebra 1 Textbook: <i>Algebra 1</i>, (McDougal Liddell), |
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| Unit 1: Number Sense ~ Number Patterns & Fractions ~ Fraction & Decimal Operations ~ Integers Unit 2: Algebra and Functions ~ Expressions & Equations ~ Ratios & Proportions ~ Percents Unit 3: Statistics, Data Analysis, and Probability ~ Analyzing Data ~ Probability Unit 4: Measurement and Geometry ~ Geometric Figures ~ Measurement & Area ~ Surface Area & Volume ~ Graphing: Review & Preview | Unit 1: Number Sense~ Integer Operations ~ Rational Number Operations ~ Decimals & Percents ~ Exponents & Irrational Number Unit 2: Algebra and Functions ~ Solving Equations & Inequalities ~ Linear Equations & Graphs ~ Exponents & Nonlinear Functions Unit 3: Measurement and Geometry ~ Measurements & Planar Figures ~ Congruence & Similarity ~ Surface Area & Volume Unit 4: Statistics, Data Analysis, and Probability ~ Data Displays ~ Polynomials: Review & Preview | Unit 1: Equations and Inequalities in One Variable ~ Expressions, Equations & Problem Solving ~ Properties of Real Numbers ~ Solving Equations Unit 2: Equations and Inequalities in Two Variables ~ Solving Inequalities ~ Graphing Linear Equations & Functions ~ Writing Linear Equations ~ Systems of Equations & Inequalities Unit 3: Exponents and Polynomials ~ Exponents & Radicals ~ Polynomials & Factoring Unit 4: Quadratic and Rational Equations ~ Quadratic Equations & Functions ~ Rational Expressions & Equations ~ Probability: Review & Preview |