

Math Descriptions

AMS 6th Grade

General: Holt Course 1 Math (red book)

Students will multiply and divide fractions, mixed numbers and decimals. Students will solve one-step equations. Students will analyze, manipulate and create two-dimensional shapes and three-dimensional figures. Students will graph and interpret data.

Prerequisite: General 5th grade course

Intermediate: Holt Course 2 Math (blue book)

Students will evaluate algebraic expressions. Students will solve one-step equations and inequalities. Students will analyze data; calculate area and solve problems involving rational numbers including percents.

Prerequisite: General or Advanced 5th grade course (teacher recommendation)

Advanced: Holt Course 3 Math (green book)

Students will perform operations on real numbers; solve and graph equations. Students will apply concepts of ratios, proportions and percents. Students will apply geometric concepts and formulas to solve problems.

Prerequisite: Advanced 5th grade course (teacher recommendation)

AMS 7th Grade

General: Holt Course 2 Math (blue book)

Students will evaluate algebraic expressions. Students will solve one-step equations and inequalities. Students will analyze data; calculate area and solve problems involving rational numbers including percents.

Prerequisite: General 6th grade course

Intermediate: Holt Course 3 Math (green book)

Students will perform operations on real numbers; solve and graph equations. Students will apply concepts of ratios, proportions and percents. Students will apply geometric concepts and formulas to solve problems.

Prerequisite: General or Intermediate 6th grade course

Advanced: Glencoe Pre-Algebra (book w/ roller coaster)

Students will perform operations on real numbers; solve and graph functions. Students will use distributive property to solve and write 2-step equations. Students will classify and factor monomials and polynomials.

Prerequisite: Intermediate or Advanced 6th grade

Dundee Crown Path: Glencoe Algebra I (red book Chapters 1-12)

Students will write and graph linear equations, inequalities and functions. Students will solve systems of linear equations and inequalities, quadratic functions, Students will simplify and solve equations that include radical expressions.

Prerequisite: Advanced 6th grade

AMS 8th Grade

General: Holt Course 3 Math (green book)

Students will perform operations on real numbers; solve and graph equations. Students will apply concepts of ratios, proportions and percents. Students will apply geometric concepts and formulas to solve problems.

Prerequisite: General 7th grade

Intermediate: Glencoe Pre-Algebra (book w/ roller coaster)

Students will perform operations on real numbers; solve and graph functions. Students will use distributive property to solve and write 2-step equations. Students will classify and factor monomials and polynomials.

Prerequisite: General or Intermediate 7th grade

Advanced: Glencoe Algebra I (red book Chapters 1-12)

Students will evaluate, solve and graph algebraic expressions, equations and inequalities.

Students will classify and factor polynomials. Students will graph and solve quadratic functions.

Students will simplify and solve equations that include radical expressions.

Prerequisite: Intermediate 7th grade

Honors (At Dundee Crown): Honors Geometry and Honors Algebra 2

Geometry students will recognize, apply, and develop relationships between points, lines, and planes; demonstrate and apply knowledge of trigonometric ratios and special triangles; develop and apply properties and relationships with circles and calculate measurements in both plane and solid figures.

Algebra 2 students will have an in-depth review of previously learned algebraic concepts, solve systems of three equations, use matrix operations, solve quadratic, logarithmic, polynomial, rational and exponential equations, and introduce the development of quadratic relations (circles, parabolas, ellipses and hyperbolas).

Prerequisite: Dundee Crown Path