



St. Thomas the Apostle School

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8th GRADE CURRICULUM MAP – MATHEMATICS – Pre-Algebra

Curriculum Maps are used as guidelines for instruction. As such, they are considered to be working documents rather than a static formula for teachers and students to follow. What this means is that there is flexibility to this map which allows for the instructor to respond to several factors: the particular needs of the current group of students, the incorporation of new material, and/or the subtraction of material. With this in mind, curriculum maps are analyzed by faculty and administration on a yearly basis for revisions. Articulation meetings also take place with the grade levels above and below to check for continuity of the curriculum.

Quarter	Content and Skills
<i>Quarter 1</i>	<p>Chapter 7 Percents</p> <ul style="list-style-type: none"> -Finding the percent of a number -Solving percent problems -Finding the percent of change in a quantity -Finding markups, discounts, sales tax, and tips -Calculating interest earned and account balances <p>Chapter 8 Linear Functions</p> <ul style="list-style-type: none"> -use graphs to represent relations and functions -find solutions of equations in two variables -use x- and y-intercepts to graph linear equations -find and interpret slopes of a line
<i>Quarter 2</i>	<p>Chapter 8 - Continued Linear Functions</p> <ul style="list-style-type: none"> -use graphs to represent relations and functions -find solutions of equations in two variables -use x- and y-intercepts to graph linear equations -find and interpret slopes of a line <p>Chapter 9 Real Numbers and Right Triangles</p> <ul style="list-style-type: none"> -Use square roots -Solving problems using the Pythagorean theorem -Comparing and ordering real numbers -Using the distance, midpoint, and slope formulas
<i>Quarter 3</i>	<p>Chapter 10 Measurement, Area, and Volume</p> <ul style="list-style-type: none"> -Classifying triangles and polygons -Finding areas of parallelograms and trapezoids -Finding circumferences and area of circles -Finding surface areas and volumes of solids <p>Chapter 11 Data Analysis and Probability</p> <ul style="list-style-type: none"> -Making histograms and box-and-whisker plots -Choosing appropriate displays for data -Collecting and interpreting data -Finding probabilities of disjoint and overlapping events -Finding probabilities of dependent and independent events
<i>Quarter 4</i>	<p>Chapter 12 Polynomials and Nonlinear Functions</p> <ul style="list-style-type: none"> -Classifying and simplifying polynomials -Adding, subtracting, multiplying polynomials -Using power of a product, power of a quotient and power of a power properties <p>Chapter 13 Angle Relationships and Transformations</p> <ul style="list-style-type: none"> -Classifying special angle pairs -Identifying angles formed by a transversal intersecting two lines -Finding measures of interior and exterior angles of polygons