

Dolton School District 148
Strategic Planning – Mathematics - Grade 7 & 8

Weeks of Instruction	Math Standards GR 7	Math Standards GR 8	Daily Review, Instruction & Homework	Evidence of Success in Achieving Targeted Skills
<p>Cycle 1</p> <p>August 16-20 August 23-27 August 30-Sept. 3 September 6-10 September 13-17 September 20-24 September 27-Oct. 1</p> <p style="text-align: center;">30 ½ days</p>	<p>10.7.01 Read and interpret data represented in graphs. 10.7.02 Create a pictograph, bar graph, tally chart, or table for a given set of data. 10.7.03 Determine the mode and range, given a set of data or a graph. 10.7.04 Classify events using the vocabulary of probability. 10.7.05 Describe the chances associated with a context presented visually. 6.7.01 Read, write, & recognize equivalent representations of positive powers of 10. 6.7.04 Represent repeated factors using exponents. 6.7.07 PS involving descriptions of numbers including characteristics and relationships. 6.7.09 Identify and apply order of operations to simplify numeric expressions. 8.7.01 Determine a missing term in a sequence, extend a sequence, and construct & identify a rule. 8.7.03 Simplify algebraic expressions by identifying and combining like terms. 8.7.05 Evaluate or simplify algebraic expressions with one or more integer variable values.</p>	<p>7.8.04 PS involving the volume or surface area of a right rectangular prism, right circular cylinder or composite shape using an appropriate formula or strategy. 7.8.05 PS involving unit conversions within the same measurement system. 6.8.02 Read, write & recognize equivalent representations of integer powers of 10. 6.8.03 Recognize, translate between and apply multiple representations of rational numbers. 6.8.04 Use scientific notation to represent numbers & solve problems. 6.8.05 Represent repeated factors using exponents. 6.8.06 Order & compare rational numbers. 6.8.07 Identify and locate rational and irrational numbers. 6.8.10 Identify and apply order of operations to simplify numeric expressions involving integers, fractions & decimals. 6.8.11 Identify and apply properties of operations with rational numbers 6.8.14 Estimate the square or cube root of a number less than 1000 6.8.15 Use ratios to describe problem situations. 6.8.16 Use proportional reasoning to model and solve problems. 6.8.17 Read, write, recognize, model and interpret percents, including those less than 1% and greater than 100%. 6.8.18 PS number sentences and problems involving fractions, decimals & percents. 9.8.05 Graph points and identify coordinates of points on the coordinate plane. 9.8.12 Relate absolute value to distance on the number line.</p>		
<p>Cycle 2</p> <p>October 4-8 October 11-15 October 18-22 October 25-29</p> <p style="text-align: center;">18 ½ days</p>	<p>6.7.03 Recognize, translate between, and apply multiple representations of rational #s. 6.7.05 Order and compare integers, terminating decimals, fractions, and mixed numbers. 6.7.06 Identify & locate integers, decimals & fractions on a number line. 6.7.08 PS number sentences involving addition, subtraction, multiplication & division using integers, fractions & decimals. 9.7.05 Graph points and identify coordinates of points on the coordinate plane.</p>	<p>10.8.06 PS involving the probability of a simple or compound event. 10.8.07 Represent all possible outcomes for simple events. 10.8.08 Solving simple problems involving the numbers of ways objects can be arranged (permutations & combinations).</p>		
<p>Cycle 3</p> <p>November 1-5 November 8-12 November 15-19 November 22-24 Nov. 29 – Dec. 3 December 6-10</p>	<p>6.7.03 Recognize, translate between, and apply multiple representations of rational #s. 6.7.14 Create & explain ratios that represent a given situation. 6.7.15 Use proportional reasoning to model & solve problems. 9.7.13 Describe the</p>	<p>8.8.01 Analyze, extend & create sequence or linear functions, and determine algebraic expressions to describe the nth term of a sequence. 8.8.02 Write an expression using variables to represent unknown quantities. 8.8.03 Simplify algebraic expressions.</p>		

<p>December 13-17</p> <p>28 ½ days</p>	<p>difference between congruence & similarity. 9.7.14 Determine if figures are similar, and identify relationships between corresponding parts of similar figures. 7.7.06 PS involving scale drawings and maps.</p>	<p>8.8.04 Recognize & generate equivalent forms of algebraic expressions. 8.8.05 Evaluate or simplify algebraic expressions with one or more rational variable values. 8.8.07 Recognize, describe & extend patterns using rate of change. 8.8.09 Interpret the meaning of slope and intercepts in linear situations. 8.8.11 Represent & analyze problems with linear equations & inequalities. 8.8.12 Solve linear equations and inequalities in one variable over rational numbers. 8.8.13 PS involving unknown quantities. 9.8.05 Graph points and identify coordinates of points on the coordinate plane.</p>		
<p>Cycle 4</p> <p>January 3-7 January 10-14 January 17-21 January 24-28</p> <p>19 ½ days</p>	<p>6.7.03 Recognize, translate between and apply multiple representations of rational numbers. 6.7.17 PS involving fractions, decimals and percents. 10.7.06 PS involving the probability of a simple or compound event. 10.7.07 Represent all possible outcomes for simple events. 10.7.08 Solve simple problems involving the number of ways objects can be arranged (permutations and combinations)</p>	<p>9.8.01 PS involving 2- and 3-D shapes. 9.8.02 PS involving knowledge of triangle and quadrilateral properties. 9.8.04 Identify, describe & determine the radius, diameter, and circumference of a circle and their relationship to each other and pi. 9.8.06 Represent and identify figures using coordinate geometry, including those resulting from transformations. 9.8.08 Identify or analyze relationships of angles formed by intersecting lines and angles formed by radii of a circle. 9.8.09 PS involving vertical, complementary, and supplementary angles. 7.8.02 PS involving perimeter/circumference and area of polygons, circles & composite figures. 7.8.03 Compare and estimate length, area, volume, weight/mass, and angles using referents. 7.8.04 PS involving the volume or surface area of a right rectangular prism, right circular cylinder or composite shape using an appropriate formula or strategy. 9.8.10 Identify the front, side, and top views of a 3-D solid built with cubes.</p>		
<p>Cycle 5</p> <p>January 31 – February 4 February 7-11 February 14-18 February 21-25</p> <p>18 ½ days</p>	<p>7.7.02 PS involving the perimeter and area of polygons and composite figures. 7.7.03 Compare and estimate length, area, volume, weight/mass and angles using referents. 7.7.04 Determine the volume and surface area of a right rectangular prism using an appropriate formula or strategy. 7.7.05 PS involving unit conversions within the same measurement system.</p>	<p>7.8.06 PS involving scale drawings, maps and indirect measurement. 9.8.07 Analyze the results of a combination of transformations and determine a different transformations that could produce the same result. 9.8.11 PS involving congruent and similar figures. 10.8.01 Read, interpret and make predictions from data represented in graphs. 10.8.02 Compare/contrast the effectiveness of different representations of the same data. 10.8.03 Create a bar graph, chart/table, line graph, or circle graph to solve a problem. 10.8.04 Identify or draw a reasonable approximation of the line of best fit from a set of data or scatter plot, and use the line to make predictions. 10.8.05 Analyze & apply measures of central tendency in problem-solving situations. 10.8.06 PS involving the probability of a simple or compound event.</p>		

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