

Math 8

Pacing Guide

First 9 Weeks		Second 9 Weeks	
Standard	Days	Standard	Days
<p>Build Relationships & Establish Routines Number sense routines *this is to continue at least 3 times a week throughout the rest of the course* Spiral Reviews will be done daily throughout the course</p>	2	<p>Unit 3: New Contexts for Equations We Know How To Solve. *Unit 3 will continue from 1st Quarter Standards: 8.CE.1; 8.MG.1a 8.CE.1 The student will estimate and apply proportional reasoning and computational procedures to solve contextual problems. 8.MG.1 The student will use the relationships among pairs of angles that are vertical angles, adjacent angles, supplementary angles, and complementary angles to determine the measure of unknown angles.</p>	15
<p>Unit 1: Let's Meet the Data Cycle and Boxplots, the Best Representation? Standards: 8.PS.2 8.PS.2 The student will apply the data cycle (formulate questions; collect or acquire data; organize and represent data; and analyze data and communicate results) with a focus on boxplots.</p>	18	<p>Unit 4: Irrational Numbers Enter the Real Number System Standards: 8.NS.1; 8.NS.2 8.NS.1 The student will compare and order real numbers and determine the relationships between real numbers. 8.NS.2 The student will investigate and describe the relationship between the subsets of the real number system.</p>	10
<p>Unit 2: Equivalent Expressions Standards: 8.PFA.1; 8.MG.5 8.PFA.1 The student will represent, simplify, and generate equivalent algebraic expressions in one variable. 8.MG.5 The student will solve area and perimeter problems involving composite plane figures, including those in context.</p>	20	<p>Unit 5: New Equations and Contexts in Geometry Standards: 8.PFA.4; 8.MG.4; 8.MG.2, 8.MG.1b 8.PFA.4 The student will write and solve multistep linear equations in one variable, including problems in context that require the solution of a multistep linear equation in one variable. 8.MG.4 The student will apply the Pythagorean Theorem to solve problems involving right triangles, including those in context. 8.MG.2 The student will investigate and determine the surface area of square-based pyramids and the volume of cones and square-based pyramids. 8.MG.1 The student will use the relationships among pairs of angles that are vertical angles, adjacent angles, supplementary angles, and complementary angles to determine the measure of unknown angles.</p>	15
<p>Unit 3: New Contexts for Equations We Know How To Solve. *Unit 3 will continue into 2nd Quarter Standards: 8.CE.1; 8.MG.1a 8.CE.1 The student will estimate and apply proportional reasoning and computational procedures to solve contextual problems. 8.MG.1 The student will use the relationships among pairs of angles that are vertical angles, adjacent angles, supplementary angles, and complementary angles to determine the measure of unknown angles.</p>	5		
Third 9 Weeks		Fourth 9 Weeks	
Standards	Days	Standards	Days

Math 8

Pacing Guide

<p>Unit 6: Solving Inequalities Standards: 8.PFA.5 8.PFA.5 The student will write and solve multistep linear inequalities in one variable, including problems in context that require the solution of a multistep linear inequality in one variable.</p>	15	<p>Unit 8: Lines and Their Equations From Transformations *Begin unit 8 in 3rd quarter and continue in 4th quarter Standards: 8.PFA.3; 8.MG.3 8.PFA.3 The student will represent and solve problems, including those in context, by using linear functions and analyzing their key characteristics (the value of the y-intercept (b) and the coordinates of the ordered pairs in graphs will be limited to integers). 8.MG.3 The student will apply translations and reflections to polygons in the coordinate plane.</p>	15
<p>Unit 7: The Data Cycle Continues and Scatterplots Take the Lead Standards: 8.PS.3, 8.PFA.2 8.PS.3 The student will apply the data cycle (formulate questions; collect or acquire data; organize and represent data; and analyze data and communicate results) with a focus on scatterplots. 8.PFA.2 The student will determine whether a given relation is a function and determine the domain and range of a function.</p>	20	<p>Unit 9: Independent or Dependent Events Standards: 8.PS.1 a-d 8.PS.1 The student will use statistical investigation to determine the probability of independent and dependent events, including those in context.</p>	15
<p>Unit 8: Lines and Their Equations From Transformations *Begin unit 8 in 3rd quarter and continue in 4th quarter Standards: 8.PFA.3; 8.MG.3 8.PFA.3 The student will represent and solve problems, including those in context, by using linear functions and analyzing their key characteristics (the value of the y-intercept (b) and the coordinates of the ordered pairs in graphs will be limited to integers). 8.MG.3 The student will apply translations and reflections to polygons in the coordinate plane.</p>	5	<p>Review for SOL</p>	15