

## Curriculum Map for Common Core Math-8 2013-2014

Month	Chapter	Timing	Content	Assessments	Common Core Standards
Sept	Pre-test	2 days			
Sept	Ch 1: Intro to the Basics	7 days	<p>This is a review of the prerequisite content for the year. Students will be reviewing the following topics:</p> <ul style="list-style-type: none"> <li>Evaluating expressions using the order of operations</li> <li>Evaluating with integers and the four operations</li> <li>Using substitution</li> <li>Translating expressions from verbal statements</li> </ul>	<p>Students will be assessed from the following:</p> <ul style="list-style-type: none"> <li>Daily homework assignments</li> <li>In-class activities</li> <li>Chapter test</li> </ul>	7 <sup>th</sup> grade standards
Sept	Ch 2: Exponents	12 days	<p>Topics:</p> <ul style="list-style-type: none"> <li>Using exponent rules with number bases</li> <li>Using negative exponents</li> <li>Simplifying expressions with factoring</li> <li>Writing numbers in scientific notation</li> <li>Using the four operations with expression written in scientific notation</li> <li>Solving story problems that require students to use the four operations with expressions written in scientific notation</li> </ul>	<p>Students will be assessed from the following:</p> <ul style="list-style-type: none"> <li>Daily homework assignments</li> <li>In-class activities</li> <li>Chapter test</li> </ul>	8.EE.1, 8.EE.3, 8.EE.4 These are pre-assessment major standards
Oct	Ch 3: Algebraic Expressions	9 days	<p>Topics:</p> <ul style="list-style-type: none"> <li>Using exponent rules with variable bases</li> <li>Simplifying algebraic expressions the involve negative exponents</li> <li>Simplifying expressions with a power raised to a power</li> <li>Simplify expressions with like-terms and distribution</li> <li>Translating algebraic expressions from verbal statements</li> </ul>	<p>Students will be assessed from the following:</p> <ul style="list-style-type: none"> <li>Daily homework assignments</li> <li>In-class activities</li> <li>Mid-chapter quiz</li> <li>Chapter test</li> </ul>	8.EE.1 This pre-assessment major standard

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Oct	Ch 4: Algebraic Equations	11 days	Topics: <ul style="list-style-type: none"> <li>• Translating verbal statements into equations</li> <li>• Solving equations with all four operations, variables on both sides, use of distribution, and combining like terms to simplify equations before solving</li> <li>• Determining if equations have one, no or an infinite number of solutions</li> <li>• Solving story problems by writing equations</li> </ul>	Students will be assessed from the following: <ul style="list-style-type: none"> <li>• Daily homework assignments</li> <li>• In-class activities</li> <li>• Mid chapter quiz</li> <li>• Chapter test</li> </ul>	8.EE.7b This is a pre-assessment major standard
Nov	Interim Test #1	1 day	To be given prior to the end of quarter 11/8/13		
Nov	Marble Project	3-5 days			
Nov	Ch 5 : Transformational Geometry	10-12 days	Topics: <ul style="list-style-type: none"> <li>• Identifying and using translations</li> <li>• Identifying and using reflections</li> <li>• Identifying and using rotations</li> <li>• Identifying and using dilations</li> <li>• Combining the four transformations</li> </ul>	Students will be assessed from the following: <ul style="list-style-type: none"> <li>• Daily homework assignments</li> <li>• In-class activities</li> <li>• Mid chapter quiz</li> <li>• Chapter test</li> </ul>	8.G.1.a,b,c, 8.G.2, 8.G.3, 8.G. 4 These are pre-assessment major standards
Nov	Kaleidoscope project	1 day			
Dec	Ch 6: Angle Relationships	8 days	Topics: <ul style="list-style-type: none"> <li>• Solving problems with interior and exterior angles of a triangle</li> <li>• Solving problems with supplementary, complementary and vertical angles</li> <li>• Solving problems with angles formed by parallel lines and a transversal</li> <li>• Solving problems with multiple relationships</li> </ul>	Students will be assessed from the following: <ul style="list-style-type: none"> <li>• Daily homework assignments</li> <li>• In-class activities</li> <li>• Chapter test</li> </ul>	8.G.5 This is a pre-assessment major standard
Jan	Ch 7: Geometry	10 days	Topics: <ul style="list-style-type: none"> <li>• Solving problems with similar Figures</li> <li>• Solving problems with area and perimeter</li> <li>• Solving problems with volume of prisms</li> <li>• Solving problems with circumference</li> </ul>	Students will be assessed from the following: <ul style="list-style-type: none"> <li>• Daily homework assignments</li> <li>• In-class activities</li> </ul>	8.G.5 This is a pre-assessment major standard 8.G.9 This is a pre-test

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			<ul style="list-style-type: none"> <li>Solving problems with volume of cylinders, cones and spheres</li> </ul>	<ul style="list-style-type: none"> <li>Mid chapter quiz</li> <li>Chapter test</li> </ul>	additional standard
Jan	Interim Test 2	2 days	To be given prior to the end of the quarter 1/31/14		
Jan	Ch 8: Rate of Change	9 days	Topics: <ul style="list-style-type: none"> <li>Finding the rate of change from tables of values and graphs</li> <li>Comparing rates of change using both the same and different representations</li> <li>Looking at situations where a rate of change is altered and represented</li> </ul>	Students will be assessed from the following: <ul style="list-style-type: none"> <li>Daily homework assignments</li> <li>In-class activities</li> <li>Group Investigations</li> </ul>	8.EE.6 This is a pre-assessment major standard 8.F.2, 8.F.4 These are pre-test supporting standards
Feb	Ch 9: Linear Functions	11 days	Topics: <ul style="list-style-type: none"> <li>Graphing linear functions with a table of values</li> <li>Graphing horizontal and vertical lines</li> <li>Slope</li> <li>Graphing with slope intercept method</li> <li>Writing the equation of a line from a graph and a table of values</li> </ul>	Students will be assessed from the following: <ul style="list-style-type: none"> <li>Daily homework assignments</li> <li>In-class activities</li> <li>Mid chapter quiz</li> <li>Chapter test</li> </ul>	8.EE.7a, 8.EE.6 These are pre-assessment major standards
Feb	Ch 10: Systems of Equations	12 days	Topics: <ul style="list-style-type: none"> <li>Explore systems where lines intersect, coincide, or are parallel</li> <li>Graphing systems</li> <li>Using substitution to solve a system</li> <li>Using elimination to solve a system</li> <li>Manipulating the equations to solve system algebraically</li> <li>Solving story problems with a system of equations</li> </ul>	Students will be assessed from the following: <ul style="list-style-type: none"> <li>Daily homework assignments</li> <li>In-class activities</li> <li>Mid Chapter quiz</li> <li>Chapter test</li> </ul>	8.EE.8a, b, c This is a pre-assessment major standard
March	Ch 11: Application of Functions	11 days	Topics: <ul style="list-style-type: none"> <li>Determining if a relationship is a function</li> <li>Determining the equation of a line from different representations</li> <li>Representing functions with a table of</li> </ul>	Students will be assessed from the following: <ul style="list-style-type: none"> <li>Daily homework assignments</li> <li>In-class activities</li> </ul>	8.F.1, 8.F.2, 8.F.3 These are pre-assessment major standards 8.F.4, 8.F.5 These are pre-

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			values, a graph, an equation, and a real-life scenario <ul style="list-style-type: none"> <li>Working with non-linear functions</li> </ul>		assessment supporting standards
March	Ch 12: Statistics	6 days	Topics: <ul style="list-style-type: none"> <li>Solving problems with two-way tables</li> <li>Solving problems with scatter plots and the line of best fit</li> </ul>	Students will be assessed from the following: <ul style="list-style-type: none"> <li>Daily homework assignments</li> <li>In-class activities</li> </ul>	8.SP.1, 8.SP.2, 8.SP.3, 8.SP.4 These are pre-assessment supporting standards
April	Interim test 3	2 days	To be given prior to the end of the quarter 4/8/14		
April	Assessment Prep	8-10 days	Reviewing topics covered this year	Students will be assessed through daily assignments and teacher observations	
May	Assessment	3 days			
May	Build and fly kites	5-8 days			
May	Ch 13: Real Numbers	10 days	Topics: <ul style="list-style-type: none"> <li>Solving problems with the Real number system</li> <li>Solving problems with perfect squares and cubes</li> <li>Approximating square roots</li> <li>Solving problems with Pythagorean Theorem</li> <li>Solving problems with story problems that use the Pythagorean theorem</li> </ul>	Students will be assessed from the following: <ul style="list-style-type: none"> <li>Daily homework assignments</li> <li>In-class activities</li> <li>Chapter test</li> </ul>	8.NS.1, 8.NS.2, 8.G.6, 8.G.7 These are post-assessment standards
May	Final Prep	8-10 days	Reviewing topic to covered this year	Students will be assessed through daily assignments and teacher observations	
June	Final Exam	1 day	To be given at the end of the year		