

**Math Topics  
Grades 10-11  
Arlington Math Project**

Month	Chapter/Topic	Time Frame	Content	Assessments	NYS Standard
September	Expressions and Equations	1 ½ weeks	Write and evaluate algebraic expressions	Homework Quizzes Chapter Exam School Island Senteo	A.A. 1,2,3,4,5,6,7,9,12,13 14,21,22,23,24,25
	Linear Inequalities		Write and solve linear equations		
	Systems of Equations		Variables on both sides Distributing a negative - Literal Equations - Absolute Value Equations		
	Polynomials		- Fractional Equations		
		½ week	Writing, solving and graphing linear inequalities Compound inequalities		
		1 week	Write and solve systems of equations Elimination method Substitution method		
		1 week	Add, subtract , multiply, divide Polynomials Scientific Notation		
October	Factoring	1 week	GCF Difference of Squares	Homework Quizzes	A.A.8,11,15,16,17,18 19,20,27,28,41

	<p>Rational Expressions</p> <p>Solving Quadratic Equations</p>	<p>1 week</p> <p>2 weeks</p>	<p>Trinomials <math>a = 1</math>; Factoring Completely</p> <p>Simplifying Multiplying Dividing Adding and subtracting Undefined Term</p> <p>Solve by factoring Solve by quadratic formula Vertex and axis of symmetry Solve linear/ quadratic systems of equations</p>	<p>Chapter Exam School Island Senteo</p>	
November	<p>Coordinate Geometry</p> <p>Graphing:</p> <p>Trig</p>	<p>1 ½ weeks</p> <p>1 week</p> <p>1 week</p>	<p>Slope, distance and midpoint Writing equations of lines Slope intercept, point slope Parallel lines Perpendicular lines Functions</p> <ul style="list-style-type: none"> <li>- Linear</li> <li>- Quadratic</li> </ul> <p>Systems of Equations</p> <ul style="list-style-type: none"> <li>- Linear</li> <li>- Linear – Quadratic</li> </ul> <p>System of inequalities Sine, Cosine, Tangent Functions Word Problems</p>	<p>Homework Quizzes Chapter Exam School Island Senteo</p>	<p>A.A.32,33,34,35,33,36,37,38,39,40</p> <p>A.C. 3,4,5,6,7,8,9,10</p> <p>A.A.42,43,44,45</p>
December	Radicals	1 week	Add, subtract, multiply and divide radicals	Homework Quizzes	A.N.2,3,4,5

	Statistics	2 weeks	Solve radical equations - Categorizing Data and Bias - Central Tendency: Mean-Mode-Median - Displaying Data <ul style="list-style-type: none"> <li>- Histograms</li> <li>- Cumulative frequency</li> <li>- Quartiles</li> <li>- Box and whisker plots</li> <li>- Scatter plots</li> <li>- Correlations</li> <li>- Line of best fit</li> <li>- Prediction</li> </ul>	Chapter Exam School Island Senteo	A.S. 1,2,3,4,5,6,7,8,9 10,11,12,13,14, 15,16,17,
January	Probability	2 weeks	Factorials Counting Principle Permutations Sample Space Tree Diagrams Single and Compound Events Theoretical vs Empirical Mutually exclusive and Independent Events Complement Conditional Involving And & Or	Homework Quizzes Chapter Exam School Island Senteo	A.N. 6,7,8 A.S. 18,19,20,21,22, 23
	Review for regents	1 week			

February	Angles	2 weeks 2 weeks	Supplementary Complementary Vertical Angles formed when parallel lines are cut by a transversal Interior and exterior angles of polygons	Homework Quizzes Chapter Exam School Island Senteo	G.PS.4 G.RP.7 G.CM 1,5 G.G. 24,25,26,35,36 37,38,39,40,41
March	Triangles	4 weeks	Isosceles Median Altitude Bisectors Triangle Inequality Mid-segment Similar triangles Congruent triangles Mean Proportional in a right triangle	Homework Quizzes Chapter Exam School Island Senteo	G.G. 21,30,33,35,42 43,44,45,46,47 48

April	Circle Geometry	2 weeks	Equation of a circle Angles and arcs Inscribed angle, Central angle Tangents, Chords Secants, tangents and angle measures, Special segments in a circle	Homework Quizzes Chapter Exam School Island Senteo	G.G. 49,50,51 71,72,73,74
May	Circle Geometry	2 weeks	Secants, tangents and angle measures,	Homework Quizzes Chapter Exam School Island Senteo	G.G. 52,53,54
	Constructions	2 weeks	Geometric Constructions		G.G. 17,18,19,20,21
June	Locus  Review for final	2 weeks  1 ½ weeks	The Basic Locus Theorems Compound Loci	Homework Quizzes Chapter Exam School Island Senteo	G.G. 22,23

