

**Course Name/Number: Algebra**  
**Grade Level: 8(Acc)**

**Curriculum Map**

Unit	Essential Questions	Standards & Skills	Common Assessments	Learning Activities	Resources/Technology
<b>Quarter: 1</b> <b>Topic: Real Numbers</b>	Rational and Irrational Numbers	8.ns.a.1	<b>Formative:</b> homework, ixl, warm-ups, learning checks, board work, group work  <b>Summative:</b> mid chapter quiz Test	Warm-up questions Notes/Examples/ Guided Practice Independent practice Delta math IXL Quizziz Edpuzzles Cooperative learning Think pair share Independent Work board work Class discussions Review work/games	Envision Mathematics Common Core book #3 EasyBridge Online Delta math IXL Edpuzzles chromebook Projector camera Calculator Common Core workbook IAR practice assessments
	Compare Real Numbers	8.ns.a.2			
	Square Roots and Cube Roots	8.ee.a.2			
	Equations with square roots and cube roots	8.ee.a.2			
<b>Quarter: 1</b> <b>Name: Expressions</b>	Evaluating algebraic Expressions Simplifying algebraic Expressions Writing algebraic Expressions	8.ee.c.7	<b>Formative:</b> homework, ixl, warm-ups, learning checks, board work, group work  <b>Summative:</b> mid chapter quiz Test	Warm-up questions Notes/Examples/ Guided Practice Independent practice Delta math IXL Quizziz Edpuzzles Cooperative learning Think pair share Independent Work board work Class discussions Review work/games	Envision Mathematics Common Core book #3 EasyBridge Online Delta math IXL Edpuzzles chromebook Projector camera Calculator Common Core workbook IAR practice assessments
<b>Quarter: 1</b> <b>Topic: Solve Linear Equations</b>	Solve 2-step equations	8.ee.c.7b	<b>Formative:</b> homework, ixl, warm-ups, learning checks, board work, group work  <b>Summative:</b> mid chapter quiz Test	Warm-up questions Notes/Examples/ Guided Practice Independent practice Delta math IXL Quizziz Edpuzzles Cooperative learning Think pair share Independent Work	Envision Mathematics Common Core book #3 EasyBridge Online Delta math IXL Edpuzzles chromebook Projector camera Calculator Common Core workbook IAR practice assessments
	Combine like terms to solve equations	8.ee.c.7b			
	Solve equations with variable on both sides	8.ee.c.7b			
	Solve equations in context	8.ee.c.7b			

	Solve multistep equations	8.ee.c.7a		board work Class discussions Review work/games	
	Equations with many or no solution	8.ee.c.7a			
<b>Quarter: 2</b> <b>Topic: Functions</b>	Understand Relations and Functions	8.f.a.1	<b>Formative:</b> homework, ixl, warm-ups, learning checks, board work, group work  <b>Summative:</b> mid chapter quiz Test	Warm-up questions Notes/Examples/ Guided Practice Independent practice Delta math IXL Quizziz Edpuzzles Cooperative learning Think pair share Independent Work board work Class discussions Review work/games	Envision Mathematics Common Core book #3 EasyBridge Online Delta math Ixl Edpuzzles chromebook Projector camera Calculator Common Core workbook IAR practice assessments
	Graph functions equation using a table or a list of values	8.f.a.1			
	Compare Linear and Nonlinear Functions	8.f.a.1,2,3 8.f.b.5			
	Describing and representing Functions Sequences				
<b>Quarter: 2</b> <b>Topic: Linear Functions</b>	Linear Functions	8.f.a.3 8.ee.b.6	<b>Formative:</b> homework, ixl, warm-ups, learning checks, board work, group work  <b>Summative:</b> mid chapter quiz Test	Warm-up questions Notes/Examples/ Guided Practice Independent practice Delta math IXL Quizziz Edpuzzles Cooperative learning Think pair share Independent Work board work Class discussions Review work/games	Envision Mathematics Common Core book #3 EasyBridge Online Delta math Ixl Edpuzzles chromebook Projector camera Calculator Common Core workbook IAR practice assessments
	Find intercepts	8.ee.b.6			
	Graph of a linear equation/use intercepts	8.ee.b.6			
	Finding Slope of a Line	8.f.a.3 alg			
	Using Slope-intercept form	8.f.a.3			
	Quick Graphs using Slope-Intercept Form	8.f.a.3 8.f.b.4			
	Constructing linear functions	8.f.b.4			
<b>Quarter: 2</b> <b>Topic: Systems of Linear Equations</b>	Solve Linear Systems by Graphing	8.ee.c.8.a	<b>Formative:</b> homework, ixl, warm-ups, learning checks, board work, group work  <b>Summative:</b> mid chapter quiz Test	Warm-up questions Notes/Examples/ Guided Practice Independent practice Delta math IXL Quizziz Edpuzzles Cooperative learning Think pair share Independent Work board work	Envision Mathematics Common Core book #3 EasyBridge Online Delta math Ixl Edpuzzles chromebook Projector camera Calculator Common Core workbook IAR practice assessments
	Solve Systems by Substitution	8.ee.c.8.b,c			
	Solve Systems by Elimination	8.ee.c.8.b,c			
	Solve systems of equations in context	8.ee.c.8.c			

				Class discussions Review work/games	
<b>Quarter: 2</b> <b>Topic: Data and Scatterplots</b>	Scatterplots and associations	8.sp.a.1	<b>Formative:</b> homework, ixl, warm-ups, learning checks, board work, group work  <b>Summative:</b> Scatterplot project	Warm-up questions Notes/Examples/ Guided Practice Independent practice Delta math IXL Quizziz Edpuzzles Cooperative learning Think pair share Independent Work board work Class discussions Review work/games	Envision Mathematics Common Core book #3 EasyBridge Online Delta math Ixl Edpuzzles chromebook Projector camera Calculator Common Core workbook IAR practice assessments
	Trendlines and predictions	8.sp.a.2,3,4			
	Constructing linear models with scatterplots	8.sp.a.3,4			
<b>Quarter: 3</b> <b>Exponents and Radicals</b>	Rules of Exponents	8.ee.a.1	<b>Formative:</b> homework, ixl, warm-ups, learning checks, board work, group work  <b>Summative:</b> mid chapter quiz Test	Warm-up questions Notes/Examples/ Guided Practice Independent practice Delta math IXL Quizziz Edpuzzles Cooperative learning Think pair share Independent Work board work Class discussions Review work/games	Envision Mathematics Common Core book #3 EasyBridge Online Delta math Ixl Edpuzzles chromebook Projector camera Calculator Common Core workbook IAR practice assessments
	Rational Exponents	8.ee.a.1			
	Radicals	8.ns.a.2			
	Operations with radicals	8.ns.a.2			
	Operations with Scientific Notation	8.ee.a.3			
<b>Quarter: 3</b> <b>Angle Relationships and Triangles and Pythagorean Theorem</b>	Angles, lines, and transversals	8.g.b.5	<b>Formative:</b> homework, ixl, warm-ups, learning checks, board work, group work  <b>Summative:</b> mid chapter quiz Test	Warm-up questions Notes/Examples/ Guided Practice Independent practice Delta math IXL Quizziz Edpuzzles Cooperative learning Think pair share Independent Work board work Class discussions Review work/games	Envision Mathematics Common Core book #3 EasyBridge Online Delta math Ixl Edpuzzles chromebook Projector camera Calculator Common Core workbook IAR practice assessments
	Interior and exterior angles of triangles	8.g.b.5			
	Angle-Angle similarity	8.g.b.5			

	Apply the Pythagorean Theorem	8.g.b.6,7,8			
<b>Quarter: 3 Polynomials</b>	Understanding Polynomials	a.apr.1 a.sse.1a a.ced.3	<b>Formative:</b> homework, ixl, warm-ups, learning checks, board work, group work  <b>Summative:</b> mid chapter quiz Test	Warm-up questions Notes/Examples/ Guided Practice Independent practice Delta math IXL Quizziz Edpuzzles Cooperative learning Think pair share Independent Work board work Class discussions Review work/games	Envision Mathematics Common Core book #3 EasyBridge Online Delta math IxI Edpuzzles chromebook Projector camera Calculator Common Core workbook IAR practice assessments
	Adding and subtracting polynomials	a.apr.1 a.sse.2 a.ced.1			
	Multiplying polynomials	a.apr.1 a.sse.2 a.ced.1			
<b>Quarter: 3 Factoring Polynomials</b>	GCF and factoring GCF/grouping	a.sse.2,3	<b>Formative:</b> homework, ixl, warm-ups, learning checks, board work, group work  <b>Summative:</b> mid chapter quiz Test	Warm-up questions Notes/Examples/ Guided Practice Independent practice Delta math IXL Quizziz Edpuzzles Cooperative learning Think pair share Independent Work board work Class discussions Review work/games	Envision Mathematics Common Core book #3 EasyBridge Online Delta math IxI Edpuzzles chromebook Projector camera Calculator Common Core workbook IAR practice assessments
	Factroing a=1	a.sse.2,3			
	Factroing a >1	a.sse.2,3			
<b>Quarter: 4 Quadratic Equations</b>	Solve quadratic equations by factoring	hsa.rei.b.4.b hsa.sse.b.3.a hsa.apr.b.3 hsa.if.c8.8.a	<b>Formative:</b> homework, ixl, warm-ups, learning checks, board work, group work  <b>Summative:</b> mid chapter quiz Test	Warm-up questions Notes/Examples/ Guided Practice Independent practice Delta math IXL Quizziz Edpuzzles Cooperative learning Think pair share Independent Work board work	Envision Mathematics Common Core book #3 EasyBridge Online Delta math IxI Edpuzzles chromebook Projector camera Calculator Common Core workbook IAR practice assessments
	Solve quadratic equations by using the quadratic formula	hsa.sse.b.3 hsa.ced.a.1 hsa.rei.b.4			
	Using the discriminant to check the	hsa.sse.b.3			

	solutions of a quadratic equation	hsa.ced.a.1 hsa.rei.b.4		Class discussions Review work/games	
<b>Quarter: 4 Quadratic Functions</b>	Components of a Parabola	hsa.rei.b.4.b	<b>Formative:</b> homework, ixl, warm-ups, learning checks, board work, group work  <b>Summative:</b> mid chapter quiz Test	Warm-up questions Notes/Examples/ Guided Practice Independent practice Delta math IXL Quizziz Edpuzzles Cooperative learning Think pair share Independent Work board work Class discussions Review work/games	Envision Mathematics Common Core book #3 EasyBridge Online Delta math Ixl Edpuzzles chromebook Projector camera Calculator Common Core workbook IAR practice assessments
	Graphing Quadratic Functions	hsa.rei.b.4.b hsa.sse.b.3.a hsa.apr.b.3 hsa.if.c8.8.a			
	Using Quadratic Functions in context	hsa.rei.b.4.b hsa.sse.b.3.a hsa.apr.b.3 hsa.if.c8.8.a			
<b>Quarter: 4 Exponential Functions</b>	Exponential Functions	<a href="#">hsf.if.b.4,5</a> hsf.b.f.a1 <a href="#">hsf.le.a.1</a> hsf.if.c.7	<b>Formative:</b> homework, ixl, warm-ups, learning checks, board work, group work  <b>Summative:</b> mid chapter quiz Test	Warm-up questions Notes/Examples/ Guided Practice Independent practice Delta math IXL Quizziz Edpuzzles Cooperative learning Think pair share Independent Work board work Class discussions Review work/games	Envision Mathematics Common Core book #3 EasyBridge Online Delta math Ixl Edpuzzles chromebook Projector camera Calculator Common Core workbook IAR practice assessments
	Graphing Exponential Functions	<a href="#">hsf.if.b.4,5</a> hsf.b.f.a1 <a href="#">hsf.le.a.1</a> hsf.if.c.7			
	Exponential Growth and Decay/ Compound Interest	hsa.sse.a.1,3 hsa.ced.a.2 <a href="#">hsf.le.a.1.c</a> <a href="#">hsf.le.a.2</a> <a href="#">hsf.le.b.5</a> hsf.if.b.6			