

First Nine Weeks  
Foundations to Algebra/ Algebra 1

Week(s)	Topics & Objectives	Standards
1	Unit 1 Expressions and equations	Resoning Quatitatively and use units to solve problems.  Interpret the structure of expressions  Create equations that describe numbers or relationships.  Solve equations and inequalities in one variable.  A.SSE.1 A.CED.1,2,3,4 A.REI.1,3 N.Q.1,2,3
2	Unit 1 Multi step Equations	Resoning Quatitatively and use units to solve problems.  Interpret the structure of expressions  Create equations that describe numbers or relationships.  Solve equations and inequalities in one variable.  A.SSE.1 A.CED.1,2,3,4 A.REI.1,3 N.Q.1,2,3
3	Unit 1 Solve for a variable, literal equations	Resoning Quatitatively and use units to solve problems.  Interpret the structure of expressions  Create equations that describe numbers or relationships.  Solve equations and inequalities in one variable.  A.SSE.1 A.CED.1,2,3,4 A.REI.1,3 N.Q.1,2,3

4	Unit 1 Absolute value equations	<p>Resoning Quatitatively and use units to solve problems.</p> <p>Interpret the structure of expressions</p> <p>Create equations that describe numbers or relationships.</p> <p>Solve equations and inequalities in one variable.</p> <p>A.SSE.1 A.CED.1,2,3,4 A.REI.1,3 N.Q.1,2,3</p>
5	Unit 1 Inequalities	<p>Resoning Quatitatively and use units to solve problems.</p> <p>Interpret the structure of expressions</p> <p>Create equations that describe numbers or relationships.</p> <p>Solve equations and inequalities in one variable.</p> <p>A.SSE.1 A.CED.1,2,3,4 A.REI.1,3 N.Q.1,2,3</p>
6	Unit 1 Absolute value inequalities	<p>Resoning Quatitatively and use units to solve problems.</p> <p>Interpret the structure of expressions</p> <p>Create equations that describe numbers or relationships.</p> <p>Solve equations and inequalities in one variable.</p> <p>A.SSE.1 A.CED.1,2,3,4 A.REI.1,3 N.Q.1,2,3</p>
7	Unit 1 Compound inequalities	<p>Resoning Quatitatively and use units to solve problems.</p> <p>Interpret the structure of expressions</p> <p>Create equations that describe numbers or relationships.</p> <p>Solve equations and inequalities in one variable.</p>

		<p>A.SSE.1  A.CED.1,2,3,4  A.REI.1,3  N.Q.1,2,3</p>
8	Unit 2 Functions, Domain, Range	<p>Extend the properties of exponents to rational exponents.  Use the properties of rational and irrational numbers.  Solve systems of equations.  Represent and solve equations and inequalities graphically.  Understand the concept of a function and use function notation.  Interpret functions that arise in applications in terms of the context.  Analyze functions using different representations.  Build new and existing functions.  Construct and compare linear, quadratic, and exponential model and solve problems.  Interpret expressions for functions in terms of the situation they model.  N.RN. 3  A.REI 5,6,10,11  F.IF.1,2,3,4,5,6,7,8,9  F.BF. 1,3  F.LE 1,2,3,5  N.Q.1,2,3</p>
9	Unit 2 Functions, Domain, Range	<p>Extend the properties of exponents to rational exponents.  Use the properties of rational and irrational numbers.  Solve systems of equations.  Represent and solve equations and inequalities graphically.  Understand the concept of a function and use function notation.  Interpret functions that arise in applications in terms of the context.  Analyze functions using different representations.  Build new and existing functions.  Construct and compare linear, quadratic, and exponential model and solve problems.  Interpret expressions for functions in terms of the situation they model.  N.RN. 3  A.REI 5,6,10,11  F.IF.1,2,3,4,5,6,7,8,9  F.BF. 1,3  F.LE 1,2,3,5  N.Q.1,2,3</p>
Second Nine Weeks		
Week(s)	Topics & Objectives	Standards

10	Unit 2 Linear Functions	<p>Extend the properties of exponents to rational exponents.          Use the properties of rational and irrational numbers.          Solve systems of equations.          Represent and solve equations and inequalities graphically.          Understand the concept of a function and use function notation.          Interpret functions that arise in applications in terms of the context.          Analyze functions using different representations.          Build new and existing functions.          Construct and compare linear, quadratic, and exponential model and solve problems.          Interpret expressions for functions in terms of the situation they model.</p> <p>N.RN. 3          A.REI 5,6,10,11          F.IF.1,2,3,4,5,6,7,8,9          F.BF. 1,3          F.LE 1,2,3,5          N.Q.1,2,3</p>
11	Unit 2 Linear Functions	<p>Extend the properties of exponents to rational exponents.          Use the properties of rational and irrational numbers.          Solve systems of equations.          Represent and solve equations and inequalities graphically.          Understand the concept of a function and use function notation.          Interpret functions that arise in applications in terms of the context.          Analyze functions using different representations.          Build new and existing functions.          Construct and compare linear, quadratic, and exponential model and solve problems.          Interpret expressions for functions in terms of the situation they model.</p> <p>N.RN. 3          A.REI 5,6,10,11          F.IF.1,2,3,4,5,6,7,8,9          F.BF. 1,3          F.LE 1,2,3,5          N.Q.1,2,3</p>
12	Unit 2 Using intercepts	<p>Extend the properties of exponents to rational exponents.          Use the properties of rational and irrational numbers.          Solve systems of equations.          Represent and solve equations and inequalities graphically.          Understand the concept of a function and use function notation.          Interpret functions that arise in applications in terms of the context.          Analyze functions using different representations.          Build new and existing functions.          Construct and compare linear, quadratic, and exponential model and solve problems.          Interpret expressions for functions in terms of the situation they model.</p> <p>N.RN. 3          A.REI 5,6,10,11          F.IF.1,2,3,4,5,6,7,8,9          F.BF. 1,3          F.LE 1,2,3,5          N.Q.1,2,3</p>

13	Unit 2 Using intercepts	<p>Extend the properties of exponents to rational exponents.  Use the properties of rational and irrational numbers.  Solve systems of equations.  Represent and solve equations and inequalities graphically.  Understand the concept of a function and use function notation.  Interpret functions that arise in applications in terms of the context.  Analyze functions using different representations.  Build new and existing functions.  Construct and compare linear, quadratic, and exponential model and solve problems.  Interpret expressions for functions in terms of the situation they model.</p> <p>N.RN. 3  A.REI 5,6,10,11  F.IF.1,2,3,4,5,6,7,8,9  F.BF. 1,3  F.LE 1,2,3,5  N.Q.1,2,3</p>
14	Unit 2 Slope, rate of change	<p>Extend the properties of exponents to rational exponents.  Use the properties of rational and irrational numbers.  Solve systems of equations.  Represent and solve equations and inequalities graphically.  Understand the concept of a function and use function notation.  Interpret functions that arise in applications in terms of the context.  Analyze functions using different representations.  Build new and existing functions.  Construct and compare linear, quadratic, and exponential model and solve problems.  Interpret expressions for functions in terms of the situation they model.</p> <p>N.RN. 3  A.REI 3,5,6,10,11  F.IF.1,2,3,4,5,6,7,8,9  F.BF. 1,3  F.LE 1,2,3,5  N.Q.1,2,3</p>
15	Unit 2 Slope, rate of change	<p>Extend the properties of exponents to rational exponents.  Use the properties of rational and irrational numbers.  Solve systems of equations.  Represent and solve equations and inequalities graphically.  Understand the concept of a function and use function notation.  Interpret functions that arise in applications in terms of the context.  Analyze functions using different representations.  Build new and existing functions.  Construct and compare linear, quadratic, and exponential model and solve problems.  Interpret expressions for functions in terms of the situation they model.</p> <p>N.RN. 3  A.REI 3, 5,6,10,11  F.IF.1,2,3,4,5,6,7,8,9  F.BF. 1,3  F.LE 1,2,3,5  N.Q.1,2,3  A.CED.3</p>

16	Unit 2 Writing equations, slope intercept form, point slope form, standard form	<p>Extend the properties of exponents to rational exponents.          Use the properties of rational and irrational numbers.          Solve systems of equations.          Represent and solve equations and inequalities graphically.          Understand the concept of a function and use function notation.          Interpret functions that arise in applications in terms of the context.          Analyze functions using different representations.          Build new and existing functions.          Construct and compare linear, quadratic, and exponential model and solve problems.          Interpret expressions for functions in terms of the situation they model.</p> <p>N.RN. 3          A.REI 5,6,10,11          F.IF.1,2,3,4,5,6,7,8,9          F.BF. 1,3          F.LE 1,2,3,5          N.Q.1,2,3          A.CED.3</p>
17	Unit 2 Writing equations, slope intercept form, point slope form, standard form	<p>Extend the properties of exponents to rational exponents.          Use the properties of rational and irrational numbers.          Solve systems of equations.          Represent and solve equations and inequalities graphically.          Understand the concept of a function and use function notation.          Interpret functions that arise in applications in terms of the context.          Analyze functions using different representations.          Build new and existing functions.          Construct and compare linear, quadratic, and exponential model and solve problems.          Interpret expressions for functions in terms of the situation they model.</p> <p>N.RN. 3          A.REI 3,5,6,10,11          F.IF.1,2,3,4,5,6,7,8,9          F.BF. 1,3          F.LE 1,2,3,5          N.Q.1,2,3          A.CED.3</p>
18	Unit 2 Scatter plots	<p>Summarize, represent and interpret data on a single count or measurement variable.          Summarize, represent and interpret data on two categorical and quantitative variables.          Interpret linear models.</p> <p>SID1,2,3,5,6,7,8,9          N.Q.1,2,3          A.CED.3          A.REI.1,3</p>

Third Nine Weeks

Week(s)	Topics & Objectives	Standards
19	Unit 2 Transforming Functions	Extend the properties of exponents to rational exponents. Use the properties of rational and irrational numbers. Solve systems of equations. Represent and solve equations and inequalities graphically. Understand the concept of a function and use function notation. Interpret functions that arise in applications in terms of the context. Analyze functions using different representations. Build new and existing functions. Construct and compare linear, quadratic, and exponential model and solve problems. Interpret expressions for functions in terms of the situation they model. N.RN. 3 A.REI 3,5,6,10,11 F.IF.1,2,3,4,5,6,7,8,9 F.BF. 1,3 F.LE 1,2,3,5 N.Q.1,2,3 A.CED.3
20	Unit 2 Solve systems of equations	Extend the properties of exponents to rational exponents. Use the properties of rational and irrational numbers. Solve systems of equations. Represent and solve equations and inequalities graphically. Understand the concept of a function and use function notation. Interpret functions that arise in applications in terms of the context. Analyze functions using different representations. Build new and existing functions. Construct and compare linear, quadratic, and exponential model and solve problems. Interpret expressions for functions in terms of the situation they model. N.RN. 3 A.REI 3, 5,6,10,11 F.IF.1,2,3,4,5,6,7,8,9 F.BF. 1,3 F.LE 1,2,3,5 N.Q.1,2,3 A.CED.3
21	Unit 2 Solve systems of inequalities in 2 variables	Extend the properties of exponents to rational exponents. Use the properties of rational and irrational numbers. Solve systems of equations. Represent and solve equations and inequalities graphically. Understand the concept of a function and use function notation. Interpret functions that arise in applications in terms of the context. Analyze functions using different representations. Build new and existing functions. Construct and compare linear, quadratic, and exponential model and solve problems. Interpret expressions for functions in terms of the situation they model. N.RN. 3

		<p>A.REI 3, 5,6,10,11,12  F.IF.1,2,3,4,5,6,7,8,9  F.BF. 1,3  F.LE 1,2,3,5  N.Q.1,2,3  A.CED.3</p>
22	<p>Unit 3  Laws of exponents</p>	<p>Interpret the structure of expressions.  Write expressions in equivalent forms to solve problems.  Perform arithmetic operations on polynomials.  Create equations that describe numbers or relationships.  Solve equations and inequalities in one variable.  Solve systems of equations.  Interpret functions that arise in applications in terms of the context.  Analyze functions using different representations.  Build a function that models a relationship between two quantities.  Build a new function from existing functions.  Construct and compare linear, quadratic, and exponential models and solve problems.</p> <p>A.SSE.1,2,3  A.APR.1,3  A.CED.1,2,4  A.REI 3, 4  F.IF.4,5,6,7,8,9  F.BF.1,3  F.LE. 3  N.Q.1,2,3</p>
23	<p>Unit 3  Polynomial Operations</p>	<p>Interpret the structure of expressions.  Write expressions in equivalent forms to solve problems.  Perform arithmetic operations on polynomials.  Create equations that describe numbers or relationships.  Solve equations and inequalities in one variable.  Solve systems of equations.  Interpret functions that arise in applications in terms of the context.  Analyze functions using different representations.  Build a function that models a relationship between two quantities.  Build a new function from existing functions.  Construct and compare linear, quadratic, and exponential models and solve problems.</p> <p>A.SSE.1,2,3  A.APR.1,3  A.CED.1,2,4  A.REI 3, 4  F.IF.4,5,6,7,8,9  F.BF.1,3  F.LE. 3  N.Q.1,2,3</p>

24	Unit 3 Factoring	<p>Interpret the structure of expressions.  Write expressions in equivalent forms to solve problems.  Perform arithmetic operations on polynomials.  Create equations that describe numbers or relationships.  Solve equations and inequalities in one variable.  Solve systems of equations.  Interpret functions that arise in applications in terms of the context.  Analyze functions using different representations.  Build a function that models a relationship between two quantities.  Build a new function from existing functions.  Construct and compare linear, quadratic, and exponential models and solve problems.</p> <p>A.SSE.1,2,3  A.APR.1,3  A.CED.1,2,4  A.REI 3, 4  F.IF.4,5,6,7,8,9  F.BF.1,3  F.LE. 3  N.Q.1,2,3</p>
25	Unit 3 Factoring Applications	<p>Interpret the structure of expressions.  Write expressions in equivalent forms to solve problems.  Perform arithmetic operations on polynomials.  Create equations that describe numbers or relationships.  Solve equations and inequalities in one variable.  Solve systems of equations.  Interpret functions that arise in applications in terms of the context.  Analyze functions using different representations.  Build a function that models a relationship between two quantities.  Build a new function from existing functions.  Construct and compare linear, quadratic, and exponential models and solve problems.</p> <p>A.SSE.1,2,3  A.APR.1,3  A.CED.1,2,4  A.REI 3, 4  F.IF.4,5,6,7,8,9  F.BF.1,3  F.LE. 3  N.Q.1,2,3</p>
26	Unit 3 Factoring Applications	<p>Interpret the structure of expressions.  Write expressions in equivalent forms to solve problems.  Perform arithmetic operations on polynomials.  Create equations that describe numbers or relationships.  Solve equations and inequalities in one variable.  Solve systems of equations.  Interpret functions that arise in applications in terms of the context.  Analyze functions using different representations.  Build a function that models a relationship between two quantities.</p>

		<p>Build a new function from existing functions. Construct and compare linear, quadratic, and exponential models and solve problems.</p> <p>A.SSE.1,2,3 A.APR.1,3 A.CED.1,2,4 A.REI 3, 4 F.IF.4,5,6,7,8,9 F.BF.1,3 F.LE. 3 N.Q.1,2,3</p>
27	<p>Unit 3 Identifying Quadratics Characteristics of Quadratic functions</p>	<p>Interpret the structure of expressions. Write expressions in equivalent forms to solve problems. Perform arithmetic operations on polynomials. Create equations that describe numbers or relationships. Solve equations and inequalities in one variable. Solve systems of equations. Interpret functions that arise in applications in terms of the context. Analyze functions using different representations. Build a function that models a relationship between two quantities. Build a new function from existing functions. Construct and compare linear, quadratic, and exponential models and solve problems.</p> <p>A.SSE.1,2,3 A.APR.1,3 A.CED.1,2,4 A.REI 3, 4 F.IF.4,5,6,7,8,9 F.BF.1,3 F.LE. 3 N.Q.1,2,3</p>
Fourth Nine Weeks		
Week(s)	Topics & Objectives	Standards
28	<p>Unit 3 Quadratics-Graphing</p>	<p>Interpret the structure of expressions. Write expressions in equivalent forms to solve problems. Perform arithmetic operations on polynomials. Create equations that describe numbers or relationships. Solve equations and inequalities in one variable. Solve systems of equations. Interpret functions that arise in applications in terms of the context. Analyze functions using different representations. Build a function that models a relationship between two quantities. Build a new function from existing functions. Construct and compare linear, quadratic, and exponential models and solve problems.</p>

		<p>A.SSE.1,2,3  A.APR.1,3  A.CED.1,2,4  A.REI 3, 4  F.IF.4,5,6,7,8,9  F.BF.1,3  F.LE. 3  N.Q.1,2,3</p>
29	Unit 3 Quadratics- Transformations,	<p>Interpret the structure of expressions.  Write expressions in equivalent forms to solve problems.  Perform arithmetic operations on polynomials.  Create equations that describe numbers or relationships.  Solve equations and inequalities in one variable.  Solve systems of equations.  Interpret functions that arise in applications in terms of the context.  Analyze functions using different representations.  Build a function that models a relationship between two quantities.  Build a new function from existing functions.  Construct and compare linear, quadratic, and exponential models and solve problems.</p> <p>A.SSE.1,2,3  A.APR.1,3  A.CED.1,2,4  A.REI 3, 4  F.IF.4,5,6,7,8,9  F.BF.1,3  F.LE. 3  N.Q.1,2,3</p>
30	Unit 3 Solving quadratics by Graphing	<p>Interpret the structure of expressions.  Write expressions in equivalent forms to solve problems.  Perform arithmetic operations on polynomials.  Create equations that describe numbers or relationships.  Solve equations and inequalities in one variable.  Solve systems of equations.  Interpret functions that arise in applications in terms of the context.  Analyze functions using different representations.  Build a function that models a relationship between two quantities.  Build a new function from existing functions.  Construct and compare linear, quadratic, and exponential models and solve problems.</p> <p>A.SSE.1,2,3  A.APR.1,3  A.CED.1,2,4  A.REI 3, 4  F.IF.4,5,6,7,8,9  F.BF.1,3  F.LE. 3  N.Q.1,2,3</p>

31	Unit 3 Solving Quadratics by factoring	<p>Interpret the structure of expressions.  Write expressions in equivalent forms to solve problems.  Perform arithmetic operations on polynomials.  Create equations that describe numbers or relationships.  Solve equations and inequalities in one variable.  Solve systems of equations.  Interpret functions that arise in applications in terms of the context.  Analyze functions using different representations.  Build a function that models a relationship between two quantities.  Build a new function from existing functions.  Construct and compare linear, quadratic, and exponential models and solve problems.</p> <p>A.SSE.1,2,3  A.APR.1,3  A.CED.1,2,4  A.REI 3, 4  F.IF.4,5,6,7,8,9  F.BF.1,3  F.LE. 3  N.Q.1,2,3</p>
32	Unit 3 Solving quadratics by using the quadratic formula	<p>Interpret the structure of expressions.  Write expressions in equivalent forms to solve problems.  Perform arithmetic operations on polynomials.  Create equations that describe numbers or relationships.  Solve equations and inequalities in one variable.  Solve systems of equations.  Interpret functions that arise in applications in terms of the context.  Analyze functions using different representations.  Build a function that models a relationship between two quantities.  Build a new function from existing functions.  Construct and compare linear, quadratic, and exponential models and solve problems.</p> <p>A.SSE.1,2,3  A.APR.1,3  A.CED.1,2,4  A.REI 3, 4  F.IF.4,5,6,7,8,9  F.BF.1,3  F.LE. 3  N.Q.1,2,3</p>
33	Review for QUESTAR	Final project
34	Review for QUESTAR	Final project

35	Review for QUESTAR	Final project
36	Review for QUESTAR	Final project