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<table>
<thead>
<tr>
<th>Unit 1: Quantities and Modeling</th>
<th>Unit 2: Understanding Functions</th>
<th>First Quarter</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Module 1: Quantitative Reasoning</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.1: A.REI.1 Solving Equations</td>
<td></td>
<td></td>
</tr>
<tr>
<td>☐ I CAN demonstrate the correct steps used to solve a simple problem.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.2: N.Q.2 Modeling Quantities</td>
<td></td>
<td></td>
</tr>
<tr>
<td>☐ I CAN use the correct quantities when modeling a problem.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.3: N.Q.3 Reporting with Precision and Accuracy</td>
<td></td>
<td></td>
</tr>
<tr>
<td>☐ I CAN determine an appropriate level of accuracy to assign to a quantity.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Module 2: Algebraic Models</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.1: A.SSE.1 Modeling with Expressions</td>
<td></td>
<td></td>
</tr>
<tr>
<td>☐ I CAN identify the coefficients in an expression.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.2: A.CED.1 Creating and Solving Equations</td>
<td></td>
<td></td>
</tr>
<tr>
<td>☐ I CAN create linear inequalities in one variable to solve problems.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.3: A.CED.4 Solving for a Variable</td>
<td></td>
<td></td>
</tr>
<tr>
<td>☐ I CAN rearrange a formula to correctly solve for a variable.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.4: A.CED.3 Creating and Solving Inequalities</td>
<td></td>
<td></td>
</tr>
<tr>
<td>☐ I CAN create and solve an inequality that represents a real world situation.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.5: A.CED.1 Creating and Solving Compound Inequalities</td>
<td></td>
<td></td>
</tr>
<tr>
<td>☐ I CAN use compound linear inequalities to solve problems.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Module 3: Functions and Models</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.1: F.IF.4 Graphing Relationships</td>
<td></td>
<td></td>
</tr>
<tr>
<td>☐ I CAN sketch a graph from a verbal description of the relationship of the points.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.2: F.IF.1 Understanding Relations and Functions</td>
<td></td>
<td></td>
</tr>
<tr>
<td>☐ I CAN demonstrate that a function must have exactly one y-value for every x-value.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.3: F.IF.2 Modeling with Functions</td>
<td></td>
<td></td>
</tr>
<tr>
<td>☐ I CAN interpret statements that use function notation.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.4: F.IF.1 Graphing Functions</td>
<td></td>
<td></td>
</tr>
<tr>
<td>☐ I CAN show that x-values are the domain and the y-values are the range.</td>
<td></td>
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☐ Model with mathematics.
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☐ Attend to precision.
☐ Look for and make use of structure.
☐ Look for and express regularly in repeated reasoning.

Vocabulary
Arithmetic sequence
Boundary line
common difference
continuous graph
Discrete function
Half-plane
Linear equation
Linear function
Linear inequality of 2 variables
Point-slope form
Rate of change
Sequence
Slope
Slope formula
Slope intercept form
Solution
Standard form
Term
x-intercept
y-intercept

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<table>
<thead>
<tr>
<th>Unit 2: Understanding Functions (Continued)</th>
<th>Unit 3: Linear Functions, Equations, and Inequalities</th>
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</thead>
<tbody>
<tr>
<td><strong>Module 4: Patterns and Sequences</strong></td>
<td><strong>Module 5: Linear Functions</strong></td>
</tr>
<tr>
<td>4.1: F.IF.3 Identifying and Graphing Sequences</td>
<td>5.1: F.LE.1 Understanding Linear Functions</td>
</tr>
<tr>
<td>I CAN define a sequence and show its relation to a function.</td>
<td>I CAN define a linear function.</td>
</tr>
<tr>
<td>4.2: F.IF.2 Constructing Arithmetic Sequences</td>
<td>5.2: F.IF.7 Using Intercepts</td>
</tr>
<tr>
<td>I CAN write an exponential function from a graph, description, and a table.</td>
<td>I CAN identify and use intercepts in linear relations.</td>
</tr>
<tr>
<td>4.3: F.BF.1 Modeling with Arithmetic Sequences</td>
<td>5.3: F.IF.6 Interpreting Rate of Change and Slope</td>
</tr>
<tr>
<td>I CAN solve real-world situations using an arithmetic sequence.</td>
<td>I CAN interpret and calculate the average rate of change of a function from a table and a graph.</td>
</tr>
<tr>
<td><strong>Module 6: Forms of Linear Equations</strong></td>
<td><strong>Module 7: Linear Equations and Inequalities</strong></td>
</tr>
<tr>
<td>6.1: F.IF.7 Slope-Intercept Form</td>
<td>7.1: A.CED.3 Modeling Linear Relationships</td>
</tr>
<tr>
<td>I CAN represent a linear function in a way that reveals its slope and ( y )-intercept.</td>
<td>I CAN model linear relationships given limited information.</td>
</tr>
<tr>
<td>6.2: A.REI.10 Point-Slope Form</td>
<td>7.2: A.REI.11 Using Functions to Solve One-Variable Equations</td>
</tr>
<tr>
<td>I CAN demonstrate that a graph of any equation in two variables is the set of all of its solutions.</td>
<td>I CAN use functions to solve one-variable equations.</td>
</tr>
<tr>
<td>6.3: A.CED.2 Standard Form</td>
<td>7.3: A.REI.12 Linear Inequalities in Two Variables</td>
</tr>
<tr>
<td>I CAN create equations in two or more variables to solve problems.</td>
<td>I CAN write and graph linear inequalities with two variables.</td>
</tr>
<tr>
<td>6.4: F.BF.3 Transforming Linear Functions</td>
<td></td>
</tr>
<tr>
<td>I CAN determine how changes to an original function will change the graph of the functions.</td>
<td></td>
</tr>
<tr>
<td>6.5: F.IF.9 Comparing Properties of Linear Functions</td>
<td></td>
</tr>
<tr>
<td>I CAN compare two functions that are represented in different ways and identify key features.</td>
<td></td>
</tr>
<tr>
<td>Mathematical Practices</td>
<td>Vocabulary</td>
</tr>
<tr>
<td>-------------------------</td>
<td>------------</td>
</tr>
<tr>
<td>Make sense of problems and persevere in solving them.</td>
<td>Absolute value functions</td>
</tr>
<tr>
<td>Reason abstractly and quantitatively.</td>
<td>Absolute value inequalities</td>
</tr>
<tr>
<td>Construct viable arguments and critique the reasoning of others.</td>
<td>Boundary (dashed line vs. solid line)</td>
</tr>
<tr>
<td>Model with mathematics.</td>
<td>Box-plot</td>
</tr>
<tr>
<td>Use appropriate tools strategically.</td>
<td>Categorical vs. Quantitative</td>
</tr>
<tr>
<td>Attend to precision.</td>
<td>Correlation coefficient</td>
</tr>
<tr>
<td>Look for and make use of structure.</td>
<td>Data</td>
</tr>
<tr>
<td>Look for and express regularity in repeated reasoning.</td>
<td>Disjunction</td>
</tr>
</tbody>
</table>

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# Algebra I

## Mathematics Third Quarter

### Unit 4: Statistical Models

<table>
<thead>
<tr>
<th>Module 8: Multi-variable Categorical Data</th>
<th>Module 10: Linear Modeling and Regression</th>
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</thead>
<tbody>
<tr>
<td>8.1: S.ID.5 Two-way Frequency Tables</td>
<td>10.1: S.ID.6, S.ID.8, S.ID.9, F.LE.5</td>
</tr>
<tr>
<td>☐ I CAN summarize categorical data for two categories.</td>
<td>Scatter Plots and Trend Lines</td>
</tr>
<tr>
<td>8.2: S.ID.5 Relative Frequency</td>
<td>☐ I CAN describe the relationship between two variables and use it to make predictions.</td>
</tr>
<tr>
<td>☐ I CAN recognize possible associations and trends between two categories of categorical data.</td>
<td>10.2: S.ID.6, S.ID.8, F.LE.5</td>
</tr>
<tr>
<td></td>
<td>Fitting a Linear Model to Data</td>
</tr>
<tr>
<td></td>
<td>☐ I CAN use the linear regression function on a graphing calculator to find the line of best fit for a two-variable data set.</td>
</tr>
</tbody>
</table>

### Module 9: One-Variable Data Distributions

<table>
<thead>
<tr>
<th>9.1: S.ID.2 Measure of Center and Spread</th>
<th>9.2: S.ID.1, S.ID.2, S.ID.3, N.Q.1 Data Distributions and Outliers</th>
</tr>
</thead>
<tbody>
<tr>
<td>☐ I CAN describe and compare data sets.</td>
<td>☐ I CAN determine which statistics are most affected by outliers, and what shapes the data distribution can have.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>9.3: S.ID.1, S.ID.2, N.Q.1 Histograms and Box Plots</th>
<th>9.4: S.ID.1, S.ID.2, N.Q.1 Normal Distributions</th>
</tr>
</thead>
<tbody>
<tr>
<td>☐ I CAN interpret the comparison data sets using data displays (histograms and box plots).</td>
<td>☐ I CAN use characteristics of a normal distribution to make estimates and probability predictions about the population that the data represents.</td>
</tr>
</tbody>
</table>

### Unit 5: Linear Systems and Piecewise-defined Functions

<table>
<thead>
<tr>
<th>Module 11: Solving Systems of Linear Equations</th>
<th>Module 12: Modeling with Linear Systems</th>
</tr>
</thead>
<tbody>
<tr>
<td>☐ I CAN find the solution of a system of linear equations by graphing.</td>
<td>Creating Systems of Linear Equations</td>
</tr>
<tr>
<td>11.2: A.REI.6 Solving Linear Systems by Substitution</td>
<td>☐ I CAN use systems of linear equations to model and solve real-world problems.</td>
</tr>
<tr>
<td>☐ I CAN solve a system of linear equations using substitution.</td>
<td>12.2: A.REI.12, A.CED.3 Graphing Systems of Linear Equations</td>
</tr>
<tr>
<td>11.3: A.REI.6 Solving Linear Systems by Adding or Subtracting</td>
<td>☐ I CAN solve a system of linear inequalities graphically.</td>
</tr>
<tr>
<td>☐ I CAN solve a system of linear equations by adding and subtracting.</td>
<td>12.3: A.CED.3 Modeling with Linear Systems</td>
</tr>
<tr>
<td>11.4: A.REI.5, A.REI.6 Solving Linear Systems by Multiplying First</td>
<td>☐ I CAN use systems of linear equations or inequalities to model and solve contextual problems.</td>
</tr>
<tr>
<td>☐ I CAN solve a system of linear equations by using multiplication and elimination.</td>
<td></td>
</tr>
</tbody>
</table>

### Module 13: Piecewise-defined Functions

<table>
<thead>
<tr>
<th>13.1: F.IF.7, F.BF.1 Understanding Piecewise-defined Functions</th>
<th>13.2: F.IF.7, F.BF.3 Absolute Value Function and Transformations</th>
</tr>
</thead>
<tbody>
<tr>
<td>☐ I CAN show how piecewise-defined functions are different from other functions.</td>
<td>☐ I CAN show the effects of parameter changes on the graph of of y = a</td>
</tr>
<tr>
<td>☐ I CAN graph them and write a piecewise-defined function from a graph.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>13.3: A.REI.3, A.REI.11, A.CED.1 Solving Absolute Value Equations</th>
<th>13.4: A.REI.3, A.REI.11, A.CED.1 Solving Absolute Value Inequalities</th>
</tr>
</thead>
<tbody>
<tr>
<td>☐ I CAN solve an absolute value equation graphically and algebraically.</td>
<td>☐ I CAN solve absolute value inequalities graphically and algebraically.</td>
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Introduction to Your Mathematics Pacing Guide

Algebra I • Fourth Quarter

Pacing Guide

Go Math! Units 6 and 7, Modules 14-18

Mathematics

Lansing School District

Vocabulary

- Asymptote
- Exponential growth vs. decay
- Binomial
- Common ratio
- Constant
- Constant change vs. constant percent change
- Degree
- Difference of two squares
- Discrete
- Distributive property
- Domain
- End behavior
- Equating exponents
- Explicit vs. recursive rules
- Exponential function
- Exponential regression
- FOIL
- Geometric sequence
- Infinity
- Leading
- Monomial
- Multivariable expressions
- Perfect square trinomial
- Polynomial
- Product of power property
- Radical
- Range
- Rational exponent
- Standard form
- Subscript
- Vertical compression
- Vertical stretch
- Trinomial
- Zero pairs

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### Algebra I

#### Unit 6: Exponential Relationships

**Module 14: Rational Exponents and Radicals**

14.1: N.RN.1, N.RN.2
Understanding Rational Exponents and Radicals
- **I CAN** relate radicals to rational exponents.

14.2: N.RN.2, N.RN.3, A.SSE.1
Simplify Expressions with Rational Exponents and Radicals
- **I CAN** write a radical expression as an expression of a rational exponent.

**Module 15: Geometric Sequences and Exponential Functions**

15.1: F.LE.2, F.LE.3
Understanding Geometric Sequences
- **I CAN** relate the terms of a geometric sequence using a common ratio.

15.2: F.BA.1, F.LE.2, F.BA.2
Constructing Geometric Sequences
- **I CAN** write a geometric sequence using recursive and explicit rules.

15.3: F.LE.2, F.IF.2, F.IF.7
Constructing Exponential Functions
- **I CAN** understand discrete exponential functions and how to represent them.

15.4: F.IF.7, F.IF.8
Graphing Exponential Functions
- **I CAN** graph an exponential function of the form \( f(x) = ab^x \).

15.5: F.BF.3, F.IF.9
Transforming Exponential Functions
- **I CAN** determine the effect changing \( a \) and/or \( b \) have on the graph of \( f(x) = ab^x \).

**Module 16: Exponential Equations and Models**

16.1: A.CED.1, A.SSE.3, A.REI.11, F.BF.1, F.LE.2
Using Graphs and Properties to Solve Equations with Exponents
- **I CAN** solve equations involving variable exponents.

16.2: F.IF.7, F.IF.5, F.BF.1, F.LE.1, F.LE.2
Modeling Exponential Growth and Decay
- **I CAN** use exponential functions to model the increase or decrease of a quantity over time.

16.3: S.ID.6, A.CED.2, A.REI.11, F.LE.1
Using Exponential Regression Models
- **I CAN** use exponential regression to model data.

16.4: F.LE.1, F.LE.3
Comparing Linear and Exponential Models
- **I CAN** recognize when to use a linear model vs. an exponential model.

**Module 17: Adding and Subtracting Polynomials**

17.1: A.SSE.1, A.SSE.2, A.APR.1, A.CED.1
Understanding Polynomial Expressions
- **I CAN** classify and simplify polynomials.

17.2: A.APR.1, A.SSE.1, A.CED.1
Adding Polynomial Expressions
- **I CAN** add polynomials.

17.3: A.APR.1, A.SSE.1, A.CED.1
Subtracting Polynomial Expressions
- **I CAN** subtract polynomials.

**Module 18: Multiplying Polynomials**

18.1: A.APR.1, A.SSE.1, A.CED.1
Multiplying Polynomial Expressions by Monomials
- **I CAN** multiply polynomials by monomials.

18.2: A.APR.1, A.SSE.1, A.CED.1
Multiplying Polynomial Expressions
- **I CAN** multiply binomials by polynomials.

18.3: A.APR.1, A.SSE.1, A.CED.1
Special Products of Binomials
- **I CAN** find special products of binomials.