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## Options FRMS Math 8A-OR

## Scope and Sequence

## Unit Lesson

Objectives

## Exponents

Powers and Exponents

Zero and Negative Exponents
Determine patterns of exponent values from a table.
Evaluate powers of zero and negative exponents.
Simplify expressions of zero and negative exponents.
Powers with the Same Base
Evaluate powers of the same base through multiplication and division.
Simplify expressions of powers with the same base.
Raising a Power to a Power

Evaluating Expressions with Exponents
Simplify expressions using the rules of exponents.
Evaluate expressions using substitution of the variables.
Introduction to Scientific Notation
Convert very small or very large numbers between scientific notation and standard notation.
Order and estimate products and quotients of numbers written in scientific notation.
Operations with Scientific Notation


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| Unit Lesson | Objectives |
| Compare positive slopes in a real-world situation. |  |
| Exploring Slope | Recognize the difference between positive slope, negative slope, no slope, and zero slope. |
|  | Determine the value of the slope of a line from a table or a graph. |
| Proportional Relationships | Determine whether a linear function is a direct variation. |
| Solve problems involving direct variation. |  |
| Compare proportional and nonproportional linear functions in the form of a table, graph, and equation. |  |
| Slope-Intercept Form | Analyze a graph to determine slope and y-intercept. |
| Simplifying Algebraic Expressions | Write a linear equation in slope-intercept form given the slope and y-intercept. |

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Unit Lesson

Comparing Slopes and Intercepts

Comparing Functions in the Real World
Analyze real-world linear relationships in order to make comparisons.
Performance Task: A Child's Growth and Prosperity

Unit Test

## Linear Solutions

Exploring Systems of Linear Equations
Determine if a given coordinate point is a solution to a system of linear equations.
Identify the unique solution of a system of two linear equations from a graph.
Using Graphs to Determine the Number of Solutions

## Scope and Sequence

Objectives
Use real-world scenarios of linear functions to write an equation in slope-intercept form.
Evaluate inputs and outputs for linear equations in slope-intercept form.

Determine slope and y-intercept of linear functions represented differently.
Compare the slope and intercepts of linear functions, including when they are expressed as equations written in different forms.
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Determine the number of solutions of a system of linear equations from a graph or by inspection.
Create a system of linear equations that has no solution, one solution, or infinitely many solutions.
Using Graphs to Solve Systems

Rewrite a system of linear equations in slope-intercept form.
Graph linear systems on the coordinate plane.
Determine the solution of a linear system from the graph.

Estimating Solutions of Systems

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## Options FRMS Math 8A-OR

Unit Lesson

Writing and Solving Systems

Exploring Systems in the Real World

Using Technology to Solve Systems

Using Substitution to Solve Systems

Rewriting Equations to Use Substitution
Isolate one variable in a system of linear equations.
Use substitution to solve a system of linear equations.
Write and solve a system of linear equations from a real-world scenario.

## Unit Test <br> Cumulative Exam

Cumulative Exam Review
Cumulative Exam

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