

**Desoto County School District 2019-2020**  
**Ready for High School Math (SREB 9)/Foundations to Algebra**

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**1<sup>ST</sup> NINE WEEKS**

<b>Unit 1: Language of Algebra (AUGUST)</b>
<b>Topic Description</b>
Classify the real number system
Translate expressions
Order of operations
Evaluate and simplify expressions using distributive property
<b>Unit 2: Solving Equations (SEPTEMBER)</b>
<b>Topic Description</b>
Solve two-step equations including rational coefficients
Solve multi-step equations including rational coefficients
Solve multi-step equations with distributive property including rational coefficients
Given a literal equation, solve for a specific variable of degree one
Apply properties of operations to solve multi-step real-world/mathematical situations

**2<sup>ND</sup> NINE WEEKS**

<b>Unit 3: Functions (OCTOBER)</b>
<b>Topic Description</b>
Analyze the relationship between x and y values
Determine if a relation is a function
Identify domain and range
Analyze and apply function rules
Recognize even and odd functions from their graphs and algebraic expressions
Use function notation to evaluate a function for a specific value
<b>Unit 4: Slope &amp; Linear Functions (NOVEMBER/DECEMBER)</b>
<b>Topic Description</b>
Interpret slope as a rate of change
Compare steeper and horizontal slopes.
Calculate slope using graphs and/or formula
Use slopes and intercepts to graph functions
Represent a given tile pattern with words, in a table, with a graph or with an equation and identify how they are equivalent
Write equations in slope-intercept form
Write equations of lines given a variety of information (examples: given a graph, two points, point and slope, slope and y-intercept and/or situation)
Graph and analyze linear functions

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**3<sup>RD</sup> NINE WEEKS**

<b>Unit 5: Systems of Equations (JANUARY)</b>
<b>Topic Description</b>
Graph systems of equations
Solve systems of equations using substitution
Solve systems of equations using elimination
Solve systems of equations using equal value method
Solve real world application of systems of equations and interpret solutions in terms of the context
<b>Unit 6: Inequalities (FEBRUARY)</b>
<b>Topic Description</b>
Solve two-step inequalities with one variable including rational coefficients
Solve multi-step inequalities with one variable including rational coefficients
Solve single variable, multi-step inequalities with distributive property including rational coefficients
Write, graph, and analyze two-variable inequalities
Graph systems of inequalities
Solve real-world application of systems of inequalities and interpret solutions in terms of the context

**4<sup>TH</sup> NINE WEEKS**

<b>Unit 7: Sequences (MARCH)</b>
<b>Topic Description</b>
Evaluate and apply formulas for arithmetic and geometric sequences
Find the value of missing term(s) in a sequence
Solve mathematical and problems in mathematical settings involving arithmetic and geometric sequences.
Extend patterns based on arithmetic and geometric sequences, given specified initial terms and patterns of change
<b>Unit 8: Exponents (APRIL/MAY)</b>
<b>Topic Description</b>
Apply properties of exponents to simply expressions
Add and subtract polynomials, include perimeter and area models
Multiply and divide monomials including negative exponents, zero power, and area models
Multiply binomials, include area models