



# Meridian District #15 Curriculum Map

Teacher Name: Hardeman  
Grade: 9th  
Subject Area: Algebra 1



| Month           | Topic/Content                         | Skill                                                                                                                                                                                                                                                                                                                              | Standard                                                                                                 | Instruction/Resources                             | Assessments                                                                                            |
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| August/<br>Sept | Algebra Basics                        | <ul style="list-style-type: none"><li>• Order of Operations &amp; Absolute Value</li><li>• Evaluating Expressions</li><li>• Combining Like Terms</li><li>• Simplifying Expressions (Distribute/Combine)</li><li>• Translating Expressions/Equations/Inequalities</li><li>• Matrices</li><li>• Solving Two-Step Equations</li></ul> | N.RN.3<br>A.SSE.1<br>A.SSE.2<br>N.VM.8<br>A.CED.1<br>A.REI.1<br>A.REI.3<br>A.CED.1<br>A.REI.1<br>A.REI.3 | All Things Algebra curriculum<br>DeltaMath<br>IXL | Formative:<br>Worksheets<br>IXL<br>DeltaMath<br><br>Summative:<br>Quiz 1-1<br>Quiz 1-2<br>Chapter test |
| October         | Multi-Step Equations and Inequalities | <ul style="list-style-type: none"><li>• Multi-Step Equations</li><li>• Variables on Both Sides</li><li>• Infinite &amp; No Solution Equations</li><li>• Algebraic Proportions</li><li>• Absolute Value Equations</li><li>• Multi-Variable (Literal) Equations</li><li>• Word Problems</li><li>• Multi-Step Inequalities</li></ul>  | A.CED.1<br>A.REI.1<br>A.REI.3<br>N.Q.1<br>A.REI.1<br>A.REI.3<br>A.CED.4<br>A.REI.1<br>A.REI.3            | All Things Algebra curriculum<br>DeltaMath<br>IXL | Formative:<br>Worksheets<br>IXL<br>DeltaMath<br><br>Summative:<br>Quiz 2-1<br>Quiz 2-2<br>Chapter test |

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|          |                         | <ul style="list-style-type: none"> <li>• Compound Inequalities</li> <li>• Absolute Value Inequalities</li> <li>• Literal Equations</li> </ul>                                                                                                                                                                                                                                                       |                                                                                                                                                                   |                                                   |                                                                                                        |
| November | Relations and Functions | <ul style="list-style-type: none"> <li>• Relations, Functions, Range, Relations vs. Functions</li> <li>• Continue Relations, Domain, Range, Functions</li> <li>• Real World Graphs</li> <li>• Equations as Functions; Graphing by Function Table</li> <li>• Function Notation; Evaluating Functions</li> <li>• Function Notation; Evaluating Functions</li> </ul>                                   | A.REI.10<br>F.IF.1<br>A.SSE.1b<br>F.BF.1a<br>F.IF.2<br>F.IF.5<br>F.IF.4<br>A.CED.2<br>F.IF.7a<br>N.Q.1                                                            | All Things Algebra curriculum<br>DeltaMath<br>IXL | Formative:<br>Worksheets<br>IXL<br>DeltaMath<br><br>Summative:<br>Quiz 3-1<br>Chapter test             |
| December | Linear Equations        | <ul style="list-style-type: none"> <li>• Slope from a Graph &amp; Slope Formula</li> <li>• Linear Equations: Slope-Intercept Form &amp; Standard Form</li> <li>• Graphing Linear Equations (Using Slope-Intercept Form)</li> <li>• x- and y- Intercepts</li> <li>• Vertical &amp; Horizontal Lines</li> <li>• The Point-Slope Formula (Given Point and Slope)</li> <li>• The Point-Slope</li> </ul> | A.CED.2<br>F.BF.1a<br>F.LE.2<br>F.LE.5<br>N.Q.1<br>S.ID.6<br>S.ID.7<br>S.ID.8<br>S.ID.9<br>A.CED.2<br>F.BF.1a<br>F.LE.2<br>S.ID.7<br>F.IF.1<br>A.CED.2<br>A.CED.3 | All Things Algebra curriculum<br>DeltaMath<br>IXL | Formative:<br>Worksheets<br>IXL<br>DeltaMath<br><br>Summative:<br>Quiz 4-1<br>Quiz 4-2<br>Chapter test |

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|                   |                       | Formula (Given Two Points)<br><ul style="list-style-type: none"> <li>• Writing Equations of Lines Review</li> <li>• Parallel and Perpendicular Lines</li> <li>• More with Parallel &amp; Perpendicular Lines (Writing Equations)</li> <li>• Linear Equations Word Problems</li> <li>• Scatter Plots, Line of Best Fit, and Linear Regression</li> </ul> | A.CED.4<br>F.BF.1a<br>F.IF.2<br>F.IF.7a<br>F.IF.9<br>F.LE.2<br>F.LE.5<br>S.ID.7<br>F.IF.6                                |                                                   |                                                                                                        |
| January           | Direct/Inverse        | <ul style="list-style-type: none"> <li>• Direct Variation</li> <li>• Inverse Variation</li> <li>• Applications</li> </ul>                                                                                                                                                                                                                               | A.CED.2<br>IF.B.4                                                                                                        | All Things Algebra curriculum<br>DeltaMath<br>IXL | Formative:<br>Worksheets<br>IXL<br>DeltaMath<br><br>Summative:<br>Big quiz                             |
| January /February | Systems of Equations  | <ul style="list-style-type: none"> <li>• Graphing</li> <li>• Substitution</li> <li>• Elimination</li> <li>• Word Problems</li> <li>• Linear Inequalities</li> <li>• Systems of Linear Inequalities</li> <li>• System of Linear Inequalities Word Problems</li> </ul>                                                                                    | A.CED.2<br>A.CED.3<br>A.REI.6<br>A.REI.10<br>A.REI.11<br>A.CED.2<br>A.CED.3<br>A.CED.4<br>A.REI.5<br>A.REI.6<br>A.REI.11 | All Things Algebra curriculum<br>DeltaMath<br>IXL | Formative:<br>Worksheets<br>IXL<br>DeltaMath<br><br>Summative:<br>Quiz 5-1<br>Quiz 5-2<br>Chapter test |
| February /March   | Polynomials Factoring | <ul style="list-style-type: none"> <li>• Intro to Polynomials: Classify, Add,</li> </ul>                                                                                                                                                                                                                                                                | A.APR.1<br>A.SSE.1a                                                                                                      | All Things Algebra curriculum                     | Formative:<br>Worksheets                                                                               |

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|                 |                     | <ul style="list-style-type: none"> <li>Subtract</li> <li>• Multiplying a Monomial and a Polynomial</li> <li>• Multiplying Binomials and Trinomials</li> <li>• Dividing Polynomials by a Monomial</li> <li>• Factoring: GCF</li> <li>• Factoring: Difference of Squares</li> <li>• Factoring: Trinomials (a=1)</li> <li>• Factoring: Trinomials (a &gt; 1)</li> </ul>                                                                                                                                               | A.APR.1<br>A.APR.6<br>A.CED.2<br>A.SSE.3a                                                                                                                                                                                            | DeltaMath<br>IXL                                  | IXL<br>DeltaMath<br><br>Summative:<br>Quiz 7-1<br>Quiz 7-2<br>Chapter test                                         |
| March/April/May | Quadratic Equations | <ul style="list-style-type: none"> <li>• Introduction to Quadratic Equations</li> <li>• (Standard Form, Axis of Symmetry, Vertex, Minimum, Maximum)</li> <li>• Graphing Quadratic Equations</li> <li>• Vertex Form of a Quadratic Equation; Transformations</li> <li>• Quadratic Roots and the Discriminant</li> <li>• Solving Quadratics by Factoring</li> <li>• Compare Vertex Form, Standard Form, and Factored Form</li> <li>• Solving Quadratics by Square Roots</li> <li>• (includes rational and</li> </ul> | A.SSE.1a<br>A.CED.1<br>A.CED.2<br>F.IF.2<br>F.IF.4<br>F.IF.5<br>F.IF.7a<br>A.REI.10<br>F.BF.3<br>F.IF.7a<br>F.IF.9<br>A.SSE.1b<br>A.REI.4b<br>A.REI.1<br>A.REI.4b<br>A.SSE.2<br>A.SSE.3a<br>F.IF.8a<br>A.CED.1<br>A.REI.4<br>A.SSE.2 | All Things Algebra curriculum<br>DeltaMath<br>IXL | Formative:<br>Worksheets<br>IXL<br>DeltaMath<br><br>Summative:<br>Quiz 8-1<br>Quiz 8-2<br>Quiz 8-3<br>Chapter test |

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|     |          | <ul style="list-style-type: none"> <li>irrational solutions)</li> <li>• Solving Quadratics by Completing the Square</li> <li>• (<math>a = 1</math>; includes rational and irrational solutions)</li> <li>• Solving Quadratics by Completing the Square</li> <li>• (<math>a &gt; 1</math>; includes rational and irrational solutions)</li> <li>• Solving Quadratics by the Quadratic Formula</li> <li>• Applications: Area and Consecutive Integer Problems</li> <li>• Applications: Projectile Motion</li> </ul> | A.SSE.3b<br>F.IF.8a<br>N.CN.7<br>A.CED.1<br>A.REI.4<br>A.SSE.1b<br>F.IF.6 |                                                   |                                           |
| May | Radicals | <ul style="list-style-type: none"> <li>• Simplifying Radicals (Square and Cube Roots)</li> <li>• Simplifying Radicals with Variables</li> <li>• Adding and Subtracting Radicals</li> </ul>                                                                                                                                                                                                                                                                                                                        | N.RN.2 (for all)                                                          | All Things Algebra curriculum<br>DeltaMath<br>IXL | Formative: Worksheets<br>IXL<br>DeltaMath |