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Publisher Resource:

HMH (Holt McDougal) (use student Active Directory)

Other Course Supplemental Resources:

Math Nation (use student Active Directory)

Algebra 1 (Khan Academy)

IXL Math – High School Standards

FSA Practice: (Please Note: these links work best in Firefox or Chrome)

Algebra 1 FSA EOC Mathematics Computer-Based PRACTICE TEST
Algebra 1 FSA Computer-Based Practice Test Answer Key

Mathematics Practice Tests – PARCC (Partnership for Assessment of Readiness for College and Careers)
Mathematics Answer Keys – PARCC
### Algebra 1

#### Quarter 1
Aug 10 – Oct 13

<table>
<thead>
<tr>
<th>Week</th>
<th>Major Concepts / Topics</th>
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</table>
| 1 8/10 - 8/11 | **Unit 1 – Working with Expressions**  
• Welcome/ Syllabus                             |                                             |
| 2 8/14 – 8/18 | **Unit 1 – Working with Expressions**  
• Number Sense (Operations of Real Numbers)  
• Lesson 2.2, 3.2 p.38 Properties of Real Numbers (Associative, Commutative, Identity, Distributive)  
• Lesson 2.2 p.41, 42 Rational & Irrational Properties (Sum and Product of Rational & Irrational)  
• Lesson 3.1 p.52 – Order of Operations  
• Lesson 4.1 p.89 – Equations in One Variable multi-step | Lesson 3.2 - Khan Academy                  |
| 3 8/21 – 8/25 | **Unit 2 – Solving Equations & Inequalities in One Variable on One Side & Both Sides**  
(Use up to 4 steps to isolate the variable)  
• Lesson 4.1 pg.89 – Solving Equations in One Variable multi-step  
(Variable on Both Sides, Combining Like Terms, Justify Steps, Include fractional coefficients)  
• Lesson 4.2 p.97 – Solving Inequalities in One Variable  
(Combining Like Terms, Justify Steps, Include fractional coefficients)  
• Solving & Graphing Compound Inequalities  
• Lesson 4.3 p.107 - Solving Literal Equations  
• Lesson 4.1 & 4.2- Solving Equations & Inequalities in Real-Life Situations | Lesson 4.1 - Khan Academy, Lesson 4.2 - Khan Academy, Lesson 4.3 - Khan Academy |
| 4 8/28 – 9/1 | **Unit 2 – Solving Equations & Inequalities in One Variable on One Side & Both Sides**  
(Use up to 4 steps to isolate the variable)  
• Lesson 4.3 p.107 - Solving Literal Equations  
• Lesson 4.3 p.107 - Solving Literal Equations  
• Lesson 4.1 & 4.2- Solving Equations & Inequalities in Real-Life Situations |                                             |
| 5 9/5 – 9/8 | **Unit 3 – Introduction to Functions**  
• Introduction to Functions - Is it a Function?  
• Introduction to Functions – Domain and Range  
• Introduction to Functions – Solutions True or False? | Lesson 5.1 - Khan Academy |

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<table>
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<th>Week</th>
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<td>9/11 – 9/15</td>
<td>• Introduction to Functions –Parent Functions</td>
<td>• Lesson 6.1 - p.155 Linear Functions</td>
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<td>• Lesson 6.2 - p.163 Using Intercepts, Standard Form</td>
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<td>• Lesson 6.3 - p.171 Using Slope as Average Rate of Change</td>
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<td>7</td>
<td>9/18 – 9/22</td>
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<td>Lesson 6.1 - Khan Academy</td>
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<td>Lesson 6.2 - Khan Academy</td>
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<td>Lesson 6.3 - Khan Academy</td>
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<td>8</td>
<td>9/25 – 9/29</td>
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<td>Lesson 6.4 - p.179 Graphing Linear Equations using Slope Intercept Form</td>
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<td>Lesson 6.6 - Math Learning</td>
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<td>10/2 – 10/6</td>
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<td>Lesson 6.7 – p.201 Writing Linear Functions from a word problem or graph.</td>
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<td>Lesson 7.2 – p.219 Operations with Linear Functions (Combining Functions)</td>
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<td>Lesson 7.4 – p.233 Linear Inequalities in Two Variables</td>
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<td>10/9 – 10/13</td>
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<td>Lesson 9.1 - Khan Academy</td>
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<td>Lesson 9.2 - Khan Academy</td>
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### Algebra 1

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| 1    | **Unit 5 – System of Linear Equations & Inequalities**  
- Real World Problems  
- Lesson 9.5 – p.311 Solving Systems of Linear Inequalities | Lesson 9.5 - Khan Academy  
- Khan Academy |
| 2    | **Unit 6 – Exponential Functions**  
- Lesson 2.1 – p31 Properties of Exponents (Fractional Exponents)  
- Rewrite Radical Expressions as Rational Exponents  
- Operations with Radical & Rational Exponents | Lesson 2.1 – Khan Academy  
- Rewrite Radical Expressions - Khan Academy |
| 3    | **Unit 6 – Exponential Functions**  
- Lesson 10.1 – p.337 Exponential Functions (Identifying Parts)  
- Lesson 10.2 – p.345 Recognizing Growth & Decay Given a Table or Graph  
- Real World Exponential Functions | Lesson 10.1 - Khan Academy  
- Lesson 10.2 - Khan Academy  
- Real World – Khan Academy |
| 4    | **Unit 6 – Exponential Functions**  
- Graph Exponential Functions by a table, intercepts, and describe the end behavior  
- Lesson 10.4 – p.361 Transformations of Exponential Functions | Graphs – Khan Academy  
- Lesson 10.4 - Study.com |
| 5    | **Unit 7 – Polynomials**  
- Lesson 14.2 – Adding & Subtracting Polynomials  
- Lesson 14.3 – Multiply Polynomials by Monomials  
- Lesson 14.4 – Multiply Polynomials | Operations with polynomials – Khan Academy |
| 6    | **Assessment** | Lesson 15.1 - Khan Academy  
- Lesson 15.2 - Khan Academy  
- Lesson 15.3 - Khan Academy |
| 7    | **Unit 7 - Quadratics**  
- Lesson 15.1 Factoring Polynomials  
- Lesson 15.2 Factoring x² + bx + c  
- Lesson 15.3 Factoring ax²+bx+c | Lesson 15.1 - Khan Academy  
- Lesson 15.2 - Khan Academy  
- Lesson 15.3 - Khan Academy |
| 8    | **Unit 7 - Quadratics**  
- Lesson 15.4 Factoring Special Products  
- Review | Lesson 15.4 - Khan Academy |
| 9    | **Review**  
- District Exams |  
- District Exams |
| 10   | **District Exams** |  
- District Exams |
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| 1/8 – 1/12 | **Unit 7 - Quadratics**  
• Lesson 16.2 – Solving \(x^2+bx+c = 0\) by Factoring (Emphasize the Zero Product Property)  
• Lesson 16.3 - Solving \(ax^2+bx+c = 0\) by factoring | Lesson 16.2 - Khan Academy  
Lesson 16.3 - Khan Academy |
| 1/16 – 1/19 | **Unit 7 – Quadratics**  
• Lesson 16.1 – Solving Quadratic Equations Using Square Roots  
• Lesson 16.4 – Solving \(x^2+bx+c = 0\) by Completing the Square  
• Lesson 16.6 – Solving \(ax^2+bx+c = 0\) by The Quadratic Formula | Lesson 16.1 – Khan Academy  
Lesson 16.4 - Khan Academy |
| 1/22 – 1/26 | **Unit 7 – Quadratics**  
• Lesson 16.6 – Solving \(ax^2+bx+c = 0\) by The Quadratic Formula  
• Lesson 17.4 - Characteristics of Quadratic Functions | Lesson 16.6 - Khan Academy  
Lesson 17.4 – Khan Academy |
| 1/30 – 2/2 | **Unit 7 – Quadratics**  
• Domain and Range  
• Lesson 17.1 – Translating Quadratic Functions & Vertex Form | Lesson 17.1 – Khan Academy |
| 2/5 – 2/9 | **Unit 7 - Quadratics**  
• Lesson 17.2 – Stretching, Shrinking, and Reflecting Quadratic Functions  
• Lesson 17.3 – Combined Transformations  
• Word Problems | Lesson 17.2 - Hotmath  
Khan Academy  
Lesson 17.3 - Hotmath |
| 2/12 – 2/16 | **Unit 8 – Functions Wrap-up – Roots, Absolute Value, Piece-Wise and Transformations**  
• Lesson 5.3 Arithmetic Sequences  
• Lesson 7.1 Arithmetic Sequences  
• Lesson 10.3 Geometric Sequences | Lesson 5.3 - Khan Academy  
Lesson 10.3 - Khan Academy |
| 2/20 – 2/23 | **Unit 8 – Functions Wrap-up – Roots, Absolute Value, Piece-Wise and Transformations**  
• Comparing Linear, Quadratic, Exponential  
• Comparing Functions using tables | |
| 2/26 – 3/2 | **Unit 8 – Functions Wrap-up – Roots, Absolute Value, Piece-Wise and Transformations**  
• 19.1 Square Root Functions  
• 19.2 Transforming Square Root Functions  
• 18.1 Piecewise Functions  
• 18.2 Absolute Value Functions | Lesson 18.1 - Khan Academy |

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### Unit 8 – Functions Wrap-up – Roots, Absolute Value, Piece-Wise and Transformations

- 18.3 Transforming Absolute Value Functions

### Unit 9 – Data and Statistics

- 13.1 Measures of Center and Spread
- 13.2 Data and Outliers
- 13.3 Histograms

Lesson 13.2 - [Khan Academy](#)
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13.4 Box Plots  
13.5 Normal Distributions  
12.1 Two-Way Frequency Tables  
12.2 Relative Frequency |  
Lesson 13.4 - [Khan Academy](#)  
Lesson 12.1 - [Khan Academy](#)  
Lesson 12.2 - [Khan Academy](#) |
| 2    | **SPRING BREAK – NO SCHOOL** | |
| 3    | **Unit 9 – Data and Statistics**  
8.1 Correlation  
8.2 Fitting Lines to Data  
8.3 Linear Regression |  
Lesson 8.1 - [Khan Academy](#)  
Lesson 8.2 - [Khan Academy](#)  
Lesson 8.3 - [Stattrek](#) |
| 4    | **Unit 9 – Data and Statistics**  
11.1 Quadratic and Exponential Regression  
Standards Based Performance Tasks |  
Algebra 1 Standards – [Florida Student](#) |
| 5    | Standards Based Performance Tasks |  
Standards Based Performance Tasks |
| 6    | Standards Based Performance Tasks |  
Standards Based Performance Tasks |
| 7    | Standards Based Performance Tasks |  
Standards Based Performance Tasks |
| 8    | Standards Based Performance Tasks |  
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| 9    | FINAL EXAMS | |
| 10   | FINAL EXAMS | |

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