

Please Note:

All standards in the state course description are designed to be learned by the end of the course. This guide represents a recommended timeline and sequence to be used voluntarily by teachers for planning purposes. Specific questions regarding when content will be addressed in a specific course are best answered by the individual teacher.

Teachers may use a wide variety of instructional materials throughout their course. The Possible Resources listed may include the district adopted instructional resource or supplemental resources that align to the topic and/or standard. These Possible Resources provide sample problems that align to the topic/standard.

Publisher Resource:

[Pearson](#) (select your grade and course level and use your active directory)

Other Course Supplemental Resources:

[Khan Academy](#) (Algebra 1; program does not support Internet Explorer)

[Math Nation](#) (Clever – use your active directory; does not support Internet Explorer)

[FSA Portal](#)

[Algebra 1 EOC Test Item Specifications](#)

[Algebra 1 FSA Computer-Based Practice Test Answer Key](#)

[PARCC \(Partnership for Assessment of Readiness for College and Careers\) - Mathematics Practice Tests with Answer Keys](#)

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| | Week | Major Concepts / Topics | Possible Resources |
|------------------------------|------------------|--|--|
| Quarter 1 Aug 16 – Oct 15 | 1 8/16 – 8/20 | <ul style="list-style-type: none"> 1.1 Operations on real numbers 1.2 Solving linear equations 1.3 Solving equations with variables on both sides 1.4 Literal equations and formulas | <i>Unit: Irrational numbers - Khan Academy</i> Rational vs. irrational expressions - Khan Academy Sum and product of 2 rational #'s is rational – Khan Academy Produce of rational and irrational is irrational - Khan Academy Sum of rational and irrational is irrational - Khan Academy Sums and products of irrational numbers - Khan Academy <i>Unit: Linear equations and graphs - Khan Academy</i> Variables, expressions and equations - Khan Academy <i>Unit: Solving equations - Khan Academy</i> Variables on Both Sides – Khan Academy Intro to equations with variables on both sides - Khan Academy Solving an equation for a variable - Khan Academy |
| | 2 8/23 – 8/27 | <ul style="list-style-type: none"> 1.5 Solving inequalities in one variable 1.6 Compound inequalities 1.7 Absolute value equations and inequalities Remediation Review | <i>Unit: Solving inequalities - Khan Academy</i> Testing solutions to an inequality - Khan Academy Plotting an inequality - Khan Academy One step inequality - Khan Academy Two step inequality - Khan Academy Inequalities with variables on both sides - Khan Academy Compound inequalities: OR - Khan Academy Compound inequalities: AND - Khan Academy <i>Unit: Absolute value and piecewise functions - Khan Academy</i> Graphing absolute value functions – Khan Academy |
| | 3 8/30 – 9/3 | <ul style="list-style-type: none"> Assessment 2.1 Slope intercept form | <i>Unit: Forms of linear equations - Khan Academy</i> Slope intercept form – Khan Academy |
| | 4 9/6 – 9/10 | <ul style="list-style-type: none"> Labor Day Holiday – 9/6 2.2 Point slope form 2.3 Standard form | Point slope form - Khan Academy Standard form - Khan Academy |
| | 5 9/13 – 9/17 | <ul style="list-style-type: none"> Interims Issued – 9/14 Remediation Review Assessment 3.1 Relations and Functions | <i>Unit: functions - Khan Academy</i> Relations and functions - Khan Academy What is a function - Khan Academy |
| | 6 9/20 – 9/24 | <ul style="list-style-type: none"> 3.2 Linear Functions 3.3 Transforming linear functions 3.4 Arithmetic sequences 3.5 Scatter plots and lines of best fit | Recognizing linear functions - Khan Academy Linear transformations - Khan Academy <i>Unit: Sequences - Khan Academy</i> Intro to arithmetic sequences – Khan Academy <i>Unit: Data and modeling - Khan Academy</i> |

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Algebra 1 Honors

2021-2022

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| | | | Scatter Plots and Lines of Fit - Khan Academy |
| | 7 9/27 – 10/1 | <ul style="list-style-type: none"> • 3.6 Analyzing lines of fit • Remediation • Review | |
| | 8 10/4 – 10/8 | <ul style="list-style-type: none"> • Assessment • 4.1 Solving systems by graphing • 4.2 Solving systems by substitution | <i>Unit: Systems of equations - Khan Academy</i> Solving systems with graphing - Khan Academy Solving Systems by Substitution – Khan Academy |
| | 9 10/11 – 10/15 | <ul style="list-style-type: none"> • 4.3 Solving systems by elimination • PSAT/NMSQT – 10/13 • 4.4 Linear inequalities | Solving Systems by Elimination – Khan Academy Inequalities with variables on both sides - Khan Academy |

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| Quarter 2 Oct 19 – Dec 21 | 1 10/19 – 10/22 | <ul style="list-style-type: none"> 4.5 Systems of linear inequalities Remediation | Systems of inequalities - Khan Academy |
| | 2 10/25 – 10/29 | <ul style="list-style-type: none"> Report Cards – 10/26 Review Assessment 6.1 Rational exponents and properties of exponents 6.2 Exponential functions | Unit: <i>Exponents and radicals</i> - Khan Academy Exponent properties: products - Khan Academy Exponent properties: parentheses - Khan Academy Exponent properties: quotients - Khan Academy Negative exponents - Khan Academy Multiplying and dividing powers - Khan Academy Powers of products and quotients - Khan Academy Powers of zero - Khan Academy Intro to exponential functions - Khan Academy |
| | 3 11/1 – 11/5 | <ul style="list-style-type: none"> 6.3 Exponential growth and decay 6.4 Geometric sequences | Unit: <i>Exponential growth and decay</i> - Khan Academy Graphing exponential growth and decay - Khan Academy Unit: <i>Sequences</i> - Khan Academy Intro to geometric sequences – Khan Academy |
| | 4 11/8 – 11/12 | <ul style="list-style-type: none"> 6.5 Transformations of exponential functions Veterans Day 11/11 Remediation | Transformations of exponential functions - Khan Academy |
| | 5 11/15 – 11/19 | <ul style="list-style-type: none"> Interims Issued – 11/16 Review Assessment 7.1 Adding and subtracting polynomials 7.2 Multiplying polynomials | Unit: <i>Quadratics: Multiplying and factoring</i> - Khan Academy Adding polynomials – Khan Academy Intro to multiplying polynomials – Khan Academy |
| | 6 11/22 – 11/26 | <ul style="list-style-type: none"> 7.3 Multiplying special cases Thanksgiving Holiday 11/24 – 11/26 | Special products $(x+a)(x-a)$ – Khan Academy Squaring binomials - Khan Academy |
| | 7 11/29 – 12/3 | <ul style="list-style-type: none"> 7.4 Factoring polynomials 7.5 Factoring $x^2 + bx + c$ 7.6 Factoring $ax^2 + bx + c$ | Intro to factoring – Khan Academy |
| | 8 12/6 – 12/10 | <ul style="list-style-type: none"> 7.7 Factoring special cases Remediation Review | Difference of squares - Khan Academy Perfect squares - Khan Academy Special product forms - Khan Academy |
| | 9 12/13 – 12/17 | <ul style="list-style-type: none"> Assessment Midterms | |
| | 10 12/20 – 12/24 | <ul style="list-style-type: none"> Second Quarter/First Semester Ends – 12/21 Winter Break – 12/22 – 1/4 | |

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| Quarter 3 Jan 6 – Mar 10 | 1 1/6 – 1/7 | <ul style="list-style-type: none"> 8.1 Key features of quadratic functions 8.2 Quadratic functions in vertex form | <i>Unit: Quadratic functions and equations - Khan Academy</i> Parabolas intro - Khan Academy Forms and features of quadratics – Khan Academy Intro to vertex form – Khan Academy |
| | 2 1/10 – 1/14 | <ul style="list-style-type: none"> 8.3 Quadratic functions in standard form 8.4 Modeling with quadratic functions | Graphing quadratics: standard form - Khan Academy |
| | 3 1/17 – 1/21 | <ul style="list-style-type: none"> Martin Luther King Jr. Holiday – 1/17 Report Cards – 1/19 8.5 Linear exponential and quadratic models Remediation | |
| | 4 1/24 – 1/28 | <ul style="list-style-type: none"> Review Assessment 9.1 Solving quadratic equations 9.2 Solving quadratic equations by factoring | Solving quadratics by factoring - Khan Academy |
| | 5 1/31 – 2/4 | <ul style="list-style-type: none"> 9.3 Rewriting radical expressions 9.4 Solving quadratic equations using square roots 9.5 Completing the square 9.6 The quadratic formula and the discriminant | Intro to rational exponents - Khan Academy Rewriting roots as rational exponents - Khan Academy Solving quadratics by taking square roots – Khan Academy Completing the square – Khan Academy Quadratic formula - Khan Academy Discriminant (practice) - Khan Academy |
| | 6 2/7 – 2/11 | <ul style="list-style-type: none"> Teacher Inservice – 2/7 Interims Issued – 2/8 9.7 Solving Systems of Linear and Quadratic Equations Remediation Review Assessment | |
| | 7 2/14 – 2/18 | <ul style="list-style-type: none"> 5.1 Absolute value function 5.2 Piece-wise functions 5.3 Step functions 5.4 Transformations of piece-wise functions | <i>Unit: Absolute value and piecewise functions - Khan Academy</i> Graphing absolute value – Khan Academy Intro to piece-wise functions – Khan Academy Domain and range of step functions - Khan Academy Shifting absolute value graphs - Khan Academy |

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Algebra 1 Honors

2021-2022

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| | <p>8 2/21 – 2/25</p> | <ul style="list-style-type: none"> • Presidents Day Holiday – 2/21 • Remediation/Review • Assessment • 10.1 Square root function • 10.2 Cube root function | <p>Graphing square root and cube root functions - Khan Academy</p> |
| | <p>9 2/28 – 3/4</p> | <ul style="list-style-type: none"> • 10.3 Analyzing functions graphically • 10.4 Translations of functions • 10.5 Compressions and stretches of functions | <p>Identifying function transformations - Khan Academy Reflecting and compressing functions - Khan Academy Identifying horizontal squash - Khan Academy</p> |
| | <p>10 3/7 – 3/10</p> | <ul style="list-style-type: none"> • 10.6 Operations of functions • 10.7 Inverse Operations • Remediation/Review • Assessment | |

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| Quarter 4 Mar 14 – June 2 | 1 3/14 – 3/18 | <ul style="list-style-type: none"> • SPRING BREAK – NO SCHOOL | |
| | 2 3/21 – 3/25 | <ul style="list-style-type: none"> • 11.1 Analyzing data displays • 11.2 Comparing data sets • 11.3 Interpreting the sets of data displays | |
| | 3 3/28 – 4/1 | <ul style="list-style-type: none"> • Report Cards – 3/29 • 11.4 Standard deviation • 11.5 Two-way frequency tables | Two way frequency tables (8th grade standards) - Khan Academy Two-way frequency tables (practice) - Khan Academy |
| | 4 4/4 – 4/8 | <ul style="list-style-type: none"> • 11.6 Data Distributions • 11.7 Normal Distributions • Remediation | |
| | 5 4/11 – 4/15 | <ul style="list-style-type: none"> • Review • Assessment • 12.1 Polynomial Identities • 12.2 Dividing Polynomials • Holiday – 4/15 | Polynomial Identities - Khan Academy Dividing polynomials - Khan Academy |
| | 6 4/18 – 4/22 | <ul style="list-style-type: none"> • Holiday – 4/18 • 12.3 Inverse Variation and the Reciprocal Functions • 12.4 Graphing Rational Functions • 12.5 Multiplying and Dividing Rational Expressions | Inverse variation - Khan Academy Graphing rational functions - Khan Academy Multiplying and dividing rational expressions - Khan Academy |
| | 7 4/25 – 4/29 | <ul style="list-style-type: none"> • Interims Issued – 4/26 • 12.6 Adding and Subtracting Rational Expressions • 12.7 Solving Rational Equations • 12.8 Solving Radical Equations | Adding and subtracting rational expressions - Khan Academy Intro to rational equations - Khan Academy Intro to square root equations - Khan Academy |
| | 8 5/2 – 5/6 5/2 – 5/27 - FSA/EOC Testing Window | <ul style="list-style-type: none"> • Remediation • Review • Assessment • Course Standards Review | |
| | 9 | <ul style="list-style-type: none"> • Course Standards Review | |

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2021-2022

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|--|-------------------|---|--|
| | 5/9 – 5/13 | | |
| | 10 5/16 – 5/20 | <ul style="list-style-type: none">• Course Standards Review | |
| | 11 5/23 – 5/27 | <ul style="list-style-type: none">• Course Standards Review | |
| | 12 5/30 – 6/2 | <ul style="list-style-type: none">• Memorial Day Holiday – 5/30• Course Standards Review | |

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