## Please Note:

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## Publisher Resource:

McGraw Hill - Cinch Learning (use student Active Directory)

## Other Course Supplemental Resources:

Math Nation (use student Active Directory)

Study Island (use student Active Directory)
IXL Math - High School Standards

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

FSA Portal
FSA Scientific Calculator
Equation Editor Item Tutorial

## PARCC

Smarter Balanced Portal

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|  | Week | Major Concepts / Topics | Possible Resources |
| :---: | :---: | :---: | :---: |
| Quarter 1 Aug 10 - Oct 14 | $\begin{gathered} 1 \\ 8 / 10-8 / 12 \end{gathered}$ | - Pre-test <br> Unit 1 - Sequences and Series <br> - Chapter 10 Sequences and Series <br> - Lesson 10-1 Sequences and Functions <br> - Lesson 10-2 Arithmetic Sequences and Series | Lesson 10-1 - Khan Academy Lesson 10-2 - Khan Academy |
|  | $\begin{gathered} 2 \\ 8 / 15-8 / 19 \end{gathered}$ | Unit 1 - Sequences and Series <br> - Chapter 10 Sequences and Series <br> - Lesson 10-3 Geometric Sequences <br> - Lesson 10-3 Geometric Series <br> - Assessment <br> - Lesson 10-4 Infinite Geometric Series <br> - Lesson 10-5 Recursion and Iteration | Lesson 10-3 - Khan Academy <br> Lesson 10-4 - Khan Academy <br> Lesson 10-5 - Khan Academy |
|  | $\begin{gathered} 3 \\ 8 / 22-8 / 26 \end{gathered}$ | - Review <br> - Assessment <br> Unit 2 Linear (Review) Unit <br> - Chapter 2Linear Relations and Functions <br> - Lesson 2-3 Rate of Change and Slope and 2-4 Writing Linear Equations | Lesson 2-3 Rate of Change Khan Academy Lesson 2-4 Linear Equations Khan Academy |
|  | $\begin{gathered} 4 \\ 8 / 29-9 / 2 \end{gathered}$ | Unit 2 Linear (Review) Unit <br> - Chapter 2Linear Relations and Functions <br> - Lesson 2-6 Special Functions <br> - Lesson 2-7 Parent Functions and Transformations <br> - Lesson 2-8 Graphing Linear and Absolute Value Inequalities <br> - Assessment | Lesson 2-6 Khan Academy <br> Lesson 2-7 Virtual Nerd <br> Lesson 2-8 Khan Academy |
|  | $\begin{gathered} 5 \\ 9 / 6-9 / 9 \end{gathered}$ | Unit 2 Linear (Review) Unit <br> - Chapter 3Systems of Equations and Inequalities <br> - Lesson 3-1 Solving Systems of Equations <br> - Lesson 3-2 Systems of Inequalities <br> - Lesson 3-4 Systems of Equations in Three Variables | Lesson 3-1 Khan Academy Lesson 3-2 Khan Academy Lesson 3-4 Khan Academy |
|  | $\begin{gathered} 6 \\ 9 / 12-9 / 16 \end{gathered}$ | Unit 2 Linear (Review) Unit <br> - Review <br> - Assessment Unit 3 Quadratics <br> - Chapter 4 Quadratic Functions and Relations <br> - Lesson 4-1 Graphing Quadratic Functions <br> - Lesson 4-2 Solving Quadratics by Graphing | Lesson 4-1 YouTube Lesson 4-2 Khan Academy |

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## Algebra 2 Honors

|  | $\begin{gathered} 7 \\ 9 / 19-9 / 23 \end{gathered}$ | Unit 3 Quadratics <br> - Chapter 4 Quadratic Functions and Relations <br> - Lesson 4-3 Solving Equations by Factoring <br> - Lesson 4-4 Complex Numbers <br> - Assessment <br> - Lesson 4-5 Completing the Square | Lesson 4-3 Khan Academy Lesson 4-4 Khan Academy <br> Lesson 4-5 Khan Academy |
| :---: | :---: | :---: | :---: |
|  | $\begin{gathered} 8 \\ 9 / 26-9 / 30 \end{gathered}$ | Unit 3 Quadratics <br> - Chapter 4 Quadratic Functions and Relations <br> - Lesson 4-5 Completing the Square <br> - Lesson 4-6 The Quadratic Formula and the Discriminant <br> - Review <br> - Assessment <br> - Lesson 4-7 Transformations of Quadratic Graphs | Lesson 4-6 Khan Academy <br> Lesson 4-7 YouTube |
|  | $\begin{gathered} 9 \\ 10 / 3-10 / 7 \end{gathered}$ | Unit 3 Quadratics <br> - Chapter 4 Quadratic Functions and Relations <br> - Lesson 4-8 Quadratic Inequalities <br> - Chapter 9 Conic Sections <br> - Lesson 9-2 Parabolas <br> - Lesson 9-7 Solving Linear-Nonlinear Systems | Lesson 4-8 Khan Academy <br> Lesson 9-2 Khan Academy Lesson 9-7 Khan Academy |
|  | $\begin{gathered} 10 \\ 10 / 10-10 / 14 \end{gathered}$ | Unit 3 Quadratics <br> - Review <br> - Assessment on Unit 3 <br> - Quarter Review and Assessment |  |

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Algebra 2 Honors

| Quarter 2$\text { Oct } 18 \text { - Dec } 21$ | Week | Major Concepts / Topics | Possible Resources |
| :---: | :---: | :---: | :---: |
|  | $\begin{gathered} 1 \\ 10 / 18-10 / 21 \end{gathered}$ | Unit 4 Polynomials <br> - Chapter 5 Polynomials and Polynomial Functions <br> - Lesson 5-1 Operations with Polynomials <br> - Lesson 5-2 Dividing Polynomials <br> - Lesson 5-3 Polynomial Functions | Lesson 5-1 Khan Academy Lesson 5-2 Khan Academy Lesson 5-3 Khan Academy |
|  | $\begin{gathered} 2 \\ 10 / 24-10 / 28 \end{gathered}$ | Unit 4 Polynomials <br> - Chapter 5 Polynomials and Polynomial Functions <br> - Lesson 5-4 Analyzing Graphs of Polynomial Functions <br> - Lesson 5-5 Solving Polynomial Equations <br> - Lesson 5-6 The Remainder and Factor Theorems <br> - Lesson 5-7 Roots and Zeros | Lesson 5-4 Khan Academy Lesson 5-5 Khan Academy Lesson 5-6 Khan Academy Lesson 5-7 YouTube |
|  | $\begin{gathered} 3 \\ 10 / 31-11 / 4 \end{gathered}$ | Unit 4 Polynomials <br> - Chapter 5 Polynomials and Polynomial Functions <br> - Lesson 5-8 Rational Zero Theorem <br> - Pythagorean Triples <br> - Review <br> - Assessments | Lesson 5-8 YouTube <br> Lesson Pythagorean Triples Pythagorean Triples |
|  | $\begin{gathered} 4 \\ 11 / 7-11 / 10 \end{gathered}$ | Unit 5 Rationals <br> - Chapter 8 Rational Functions and Relations <br> - Lesson 8-1 Multiplying and Dividing Rationals <br> - Lesson 8-2 Adding and Subtracting Rationals <br> - Lesson 8-3 Graphing Reciprocal Functions | Lesson 8-1 Khan Academy Lesson 8-2 Khan Academy Lesson 8-3 YouTube |
|  | $\begin{gathered} 5 \\ 11 / 14-11 / 18 \end{gathered}$ | Unit 5 Rationals <br> - Chapter 8 Rational Functions and Relations <br> - Lesson 8-4 Graphing Rational Functions <br> - Lesson 8-5 Variation <br> - Lesson 8-6 Solving Rational Equations | Lesson 8-4 Khan Academy Lesson 8-5 Khan Academy Lesson 8-6 Khan Academy |
|  | $\begin{gathered} 6 \\ 11 / 21-11 / 22 \end{gathered}$ | Unit 5 Rationals <br> - Project Based Learning |  |
|  | $\begin{gathered} 7 \\ 11 / 28-12 / 2 \end{gathered}$ | Unit 5 Rationals <br> - Review <br> - Assessment <br> - Project Based Learning |  |
|  | $\begin{gathered} 8 \\ 12 / 5-12 / 9 \\ \hline \end{gathered}$ | Unit 6 Radical Functions <br> - Chapter 6 Inverses and Radical Functions and Relations |  |

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## Algebra 2 Honors

|  |  | - Lesson 6-1 Operations on Functions <br> - Lesson 6-2 Inverse Functions and Relations <br> - Lesson 6-3 Square Root Functions <br> - Lesson 6-7 Solving Radical Equations (no Inequalities) | Lesson 6-1 YouTube Lesson 6-2 Khan Academy Lesson 6-3 Khan Academy Lesson 6-7 Khan Academy |
| :---: | :---: | :---: | :---: |
|  | $\begin{gathered} 9 \\ 12 / 12-12 / 16 \\ \hline \end{gathered}$ | - Semester Review |  |
|  | $\begin{gathered} \hline 10 \\ 12 / 19-12 / 21 \\ \hline \end{gathered}$ | - District Exams |  |

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Algebra 2 Honors

| $\begin{gathered} \text { Quarter } 3 \\ \text { Jan } 5 \text { - Mar } 10 \end{gathered}$ | Week | Major Concepts / Topics | Possible Resources |
| :---: | :---: | :---: | :---: |
|  | $\begin{gathered} 1 \\ 1 / 5-1 / 6 \end{gathered}$ | Unit 6 Radical Functions <br> - Chapter 6 Inverses and Radical Functions and Relations <br> - Review 6-1 and 6-2 <br> - Lesson 6-3 Square Root Functions <br> - Lesson 6-4 nth Roots | Lesson 6-3 Khan Academy Lesson 6-4 Khan Academy |
|  | $\begin{gathered} 2 \\ 1 / 9-1 / 13 \end{gathered}$ | Unit 6 Radical Functions <br> - Assessment <br> - Chapter 6 Inverses and Radical Functions and Relations <br> - Lesson 6-5 Operations with Radicals <br> - Lesson 6-6 Rational Expressions <br> - Lesson 6-7 Solving Radical Equations | Lesson 6-5 Khan Academy Lesson 6-6 Khan Academy Lesson 6-7 Khan Academy |
|  | $\begin{gathered} 3 \\ 1 / 17-1 / 20 \end{gathered}$ | Unit 6 Radical Functions <br> - Project Based Learning <br> - Review <br> - Assessment <br> Unit 7 Exponents and Logarithms <br> - Chapter 7 Exponential and Logarithmic Functions and Relations <br> - Lesson 7-1 Graphing Exponential Functions | Lesson 7-1 Khan Academy |
|  | $\begin{gathered} 4 \\ 1 / 23-1 / 27 \end{gathered}$ | Unit 7 Exponents and Logarithms <br> - Chapter 7 Exponential and Logarithmic Functions and Relations <br> - Lesson 7-2 Solving Exponential Equations <br> - Lesson 7-3 Solving Exponential Functions and Logs <br> - Lesson 7-4 Solving Logarithmic Equations <br> - Assessment | Lesson 7-2 Khan Academy Lesson 7-3 Khan Academy Lesson 7-4 Khan Academy |
|  | $\begin{gathered} 5 \\ 1 / 30-2 / 3 \end{gathered}$ | Unit 7 Exponents and Logarithms <br> - Chapter 7 Exponential and Logarithmic Functions and Relations <br> - Lesson 7-5 Properties of Logs <br> - Lesson 7-6 Common Logs <br> - Lesson 7-7 The Natural Base, e | Lesson 7-5 Khan Academy Lesson 7-6 Khan Academy Lesson 7-7 Khan Academy |
|  | $\begin{gathered} 6 \\ 2 / 6-2 / 10 \end{gathered}$ | Unit 7 Exponents and Logarithms <br> - Chapter 7 Exponential and Logarithmic Functions and Relations <br> - Lesson 7-6 and Lesson 7-7 continued (Common Logs and Base e) <br> - Lesson 7-8 Using Exponential and Logarithmic Functions <br> - Review <br> - Assessments | Lesson 7-8 YouTube |

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## Algebra 2 Honors

|  | $\begin{gathered} 7 \\ 2 / 13-2 / 16 \end{gathered}$ | Unit 8 Probability <br> - Chapter 0 Preparing for Advanced Algebra <br> - Lesson 0-4 Counting Techniques <br> - Lesson 0-5 Adding Probabilities <br> - Lesson 0-6 Multiplying Probabilities | Lesson 0-4 Virtual Nerd Lesson 0-5 Khan Academy Lesson 0-6 Khan Academy |
| :---: | :---: | :---: | :---: |
|  | $\begin{gathered} 8 \\ 2 / 21-2 / 24 \end{gathered}$ | Unit 8 Probability <br> - Lesson Venn diagrams <br> - Assessment Unit 9 Statistics <br> - Chapter 0 Preparing for Advanced Algebra <br> - Lesson 0-9 Measures of Central Tendency | Venn Diagrams <br> Lesson 0-9 Khan Academy |
|  | $\begin{gathered} 9 \\ 2 / 27-3 / 3 \end{gathered}$ | Unit 9 Statistics <br> - Chapter 11 Statistics and Probability <br> - Lesson 11-2 Distribution of Data <br> - Lesson 11-3 Probability Distribution <br> - Lesson 11-5 Normal Distribution | Lesson 11-2 YouTube Lesson 11-3 Khan Academy Lesson 11-5 Khan Academy |
|  | $\begin{gathered} 10 \\ 3 / 6-3 / 10 \end{gathered}$ | Unit 9 Statistics <br> - Chapter 11 Statistics and Probability <br> - Lesson 11-5 Normal Distribution cont. <br> - Project Based Learning <br> - Review <br> - Assessments |  |

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Algebra 2 Honors

| Quarter 4 <br> Mar 21 - May 24 | Week | Major Concepts / Topics | Possible Resources |
| :---: | :---: | :---: | :---: |
|  | $\begin{gathered} 1 \\ 3 / 12-3 / 24 \end{gathered}$ | Unit 10 Trigonometry <br> - Chapter 12 Trigonometric Functions <br> - Lesson 12-1 Trig. Functions in Right Triangles <br> - Lesson 12-2 Angles and Angle Measures | Lesson 12-1 Khan Academy Lesson 12-2 Khan Academy |
|  | $\begin{gathered} 2 \\ 3 / 27-3 / 31 \end{gathered}$ | Unit 10 Trigonometry <br> - Chapter 12 Trigonometric Functions <br> - Lesson 12-3 Trig. Functions of General Angles <br> - Assessment <br> - Lesson 12-6 Circles and Periodic Functions <br> - Lesson 12-7 Graphing Trig. Functions <br> - Lesson 12-8 Translations in Trig. Functions | Lesson 12-3 Khan Academy <br> Lesson 12-6 Khan Academy Lesson 12-7 Khan Academy Lesson 12-8 Khan Academy |
|  | $\begin{gathered} 3 \\ 4 / 3-4 / 7 \end{gathered}$ | Unit 10 Trigonometry <br> - Chapter 13 Trigonometric identities and Equations <br> - Lesson 13-1 Trig. Identities <br> - Review <br> - Assessment | Lesson 13-1 Khan Academy |
|  | $\begin{gathered} 4 \\ 4 / 10-4 / 13 \\ \hline \end{gathered}$ | - Course Review |  |
|  | $\begin{gathered} 5 \\ 4 / 17-4 / 21 \end{gathered}$ | Unit 11 Projects <br> - Chapter 0 Preparing for Advanced Algebra <br> - Lesson 0-4 Permutations and Combinations <br> - Chapter 10 Sequences and Series <br> - Lesson 10-6 Binomial Theorem, Binomial Expansion, Pascal's Triangle | Lesson 0-4 Khan Academy <br> Lesson 10-6 Khan Academy |
|  | $\begin{gathered} 6 \\ 4 / 24-4 / 28 \\ \hline \end{gathered}$ | Unit 11 Projects <br> - Project Based Learning |  |
|  | $\begin{gathered} 7 \\ 5 / 1-5 / 5 \\ \hline \end{gathered}$ | - Standards Based Performance Tasks - Radicals |  |
|  | $\begin{gathered} 8 \\ 5 / 8-5 / 12 \end{gathered}$ | - Standards Based Performance Tasks - Factoring |  |
|  | $\begin{gathered} 9 \\ 5 / 15-5 / 19 \end{gathered}$ | - Standards Based Performance Tasks - Rationals <br> - Review of Semester 2 material |  |
|  | $\begin{gathered} 10 \\ 5 / 22-5 / 24 \end{gathered}$ | - Assessment |  |

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