

| Unit | Essential Questions | Standards & Skills | Common Assessments | Learning Activities | Resources/Technology |
|---|--|--------------------|--|--|---|
| Quarter: 1 Topic: Real Numbers | Rational and Irrational Numbers | 8.ns.a.1 | Formative: homework, ixl, warm-ups, learning checks, board work, group work Summative: mid chapter quiz Test | Warm-up questions Notes/Examples/ Guided Practice Independent practice Delta math IXL Quizziz Edpuzzles Cooperative learning Think pair share Independent Work board work Class discussions Review work/games | Envision Mathematics Common Core book #3 EasyBridge Online Delta math IxL Edpuzzles chromebook Projector camera Calculator Common Core workbook IAR practice assessments |
| | Compare Real Numbers | 8.ns.a.2 | | | |
| | Square Roots and Cube Roots | 8.ee.a.2 | | | |
| | Equations with square roots and cube roots | 8.ee.a.2 | | | |
| Quarter: 1 Name: Expressions | Evaluating algebraic Expressions Simplifying algebraic Expressions Writing algebraic Expressions | 8.ee.c.7 | Formative: homework, ixl, warm-ups, learning checks, board work, group work Summative: mid chapter quiz Test | Warm-up questions Notes/Examples/ Guided Practice Independent practice Delta math IXL Quizziz Edpuzzles Cooperative learning Think pair share Independent Work board work Class discussions Review work/games | Envision Mathematics Common Core book #3 EasyBridge Online Delta math IxL Edpuzzles chromebook Projector camera Calculator Common Core workbook IAR practice assessments |
| Quarter: 1 Topic: Solve Linear Equations | Solve 2-step equations | 8.ee.c.7b | Formative: homework, ixl, warm-ups, learning checks, board work, group work Summative: mid chapter quiz Test | Warm-up questions Notes/Examples/ Guided Practice Independent practice Delta math IXL Quizziz Edpuzzles Cooperative learning Think pair share Independent Work | Envision Mathematics Common Core book #3 EasyBridge Online Delta math IxL Edpuzzles chromebook Projector camera Calculator Common Core workbook IAR practice assessments |
| | Combine like terms to solve equations | 8.ee.c.7b | | | |
| | Solve equations with variable on both sides | 8.ee.c.7b | | | |
| | Solve equations in context | 8.ee.c.7b | | | |

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|--|--|------------------------|---|--|--|
| | Solve multistep equations | 8.ee.c.7a | | board work Class discussions Review work/games | |
| | Equations with many or no solution | 8.ee.c.7a | | | |
| Quarter: 2 Topic: Functions | Understand Relations and Functions | 8.f.a.1 | Formative: homework, ixl, warm-ups, learning checks, board work, group work Summative: mid chapter quiz Test | Warm-up questions Notes/Examples/ Guided Practice Independent practice Delta math IXL Quizziz Edpuzzles Cooperative learning Think pair share Independent Work board work Class discussions Review work/games | Envision Mathematics Common Core book #3 EasyBridge Online Delta math Ixl Edpuzzles chromebook Projector camera Calculator Common Core workbook IAR practice assessments |
| | Graph functions equation using a table or a list of values | 8.f.a.1 | | | |
| | Compare Linear and Nonlinear Functions | 8.f.a.1,2,3 8.f.b.5 | | | |
| | Describing and representing Functions Sequences | | | | |
| Quarter: 2 Topic: Linear Functions | Linear Functions | 8.f.a.3 8.ee.b.6 | Formative: homework, ixl, warm-ups, learning checks, board work, group work Summative: mid chapter quiz Test | Warm-up questions Notes/Examples/ Guided Practice Independent practice Delta math IXL Quizziz Edpuzzles Cooperative learning Think pair share Independent Work board work Class discussions Review work/games | Envision Mathematics Common Core book #3 EasyBridge Online Delta math Ixl Edpuzzles chromebook Projector camera Calculator Common Core workbook IAR practice assessments |
| | Find intercepts | 8.ee.b.6 | | | |
| | Graph of a linear equation/use intercepts | 8.ee.b.6 | | | |
| | Finding Slope of a Line | 8.f.a.3 alg | | | |
| | Using Slope-intercept form | 8.f.a.3 | | | |
| | Quick Graphs using Slope-Intercept Form | 8.f.a.3 8.f.b.4 | | | |
| | Constructing linear functions | 8.f.b.4 | | | |
| Quarter: 2 Topic: Systems of Linear Equations | Solve Linear Systems by Graphing | 8.ee.c.8.a | Formative: homework, ixl, warm-ups, learning checks, board work, group work Summative: mid chapter quiz Test | Warm-up questions Notes/Examples/ Guided Practice Independent practice Delta math IXL Quizziz Edpuzzles Cooperative learning Think pair share Independent Work board work | Envision Mathematics Common Core book #3 EasyBridge Online Delta math Ixl Edpuzzles chromebook Projector camera Calculator Common Core workbook IAR practice assessments |
| | Solve Systems by Substitution | 8.ee.c.8.b,c | | | |
| | Solve Systems by Elimination | 8.ee.c.8.b,c | | | |
| | Solve systems of equations in context | 8.ee.c.8.c | | | |

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| | | | | Class discussions Review work/games | |
| Quarter: 2 Topic: Data and Scatterplots | Scatterplots and associations | 8.sp.a.1 | Formative: homework, ixl, warm-ups, learning checks, board work, group work Summative: Scatterplot project | Warm-up questions Notes/Examples/ Guided Practice Independent practice Delta math IXL Quizziz Edpuzzles Cooperative learning Think pair share Independent Work board work Class discussions Review work/games | Envision Mathematics Common Core book #3 EasyBridge Online Delta math IxL Edpuzzles chromebook Projector camera Calculator Common Core workbook IAR practice assessments |
| | Trendlines and predictions | 8.sp.a.2,3,4 | | | |
| | Constructing linear models with scatterplots | 8.sp.a.3,4 | | | |
| Quarter: 3 Exponents and Radicals | Rules of Exponents | 8.ee.a.1 | Formative: homework, ixl, warm-ups, learning checks, board work, group work Summative: mid chapter quiz Test | Warm-up questions Notes/Examples/ Guided Practice Independent practice Delta math IXL Quizziz Edpuzzles Cooperative learning Think pair share Independent Work board work Class discussions Review work/games | Envision Mathematics Common Core book #3 EasyBridge Online Delta math IxL Edpuzzles chromebook Projector camera Calculator Common Core workbook IAR practice assessments |
| | Rational Exponents | 8.ee.a.1 | | | |
| | Radicals | 8.ns.a.2 | | | |
| | Operations with radicals | 8.ns.a.2 | | | |
| | Operations with Scientific Notation | 8.ee.a.3 | | | |
| Quarter: 3 Angle Relationships and Triangles and Pythagorean Theorem | Angles, lines, and transversals | 8.g.b.5 | Formative: homework, ixl, warm-ups, learning checks, board work, group work Summative: mid chapter quiz Test | Warm-up questions Notes/Examples/ Guided Practice Independent practice Delta math IXL Quizziz Edpuzzles Cooperative learning Think pair share Independent Work board work Class discussions Review work/games | Envision Mathematics Common Core book #3 EasyBridge Online Delta math IxL Edpuzzles chromebook Projector camera Calculator Common Core workbook IAR practice assessments |
| | Interior and exterior angles of triangles | 8.g.b.5 | | | |
| | Angle-Angle similarity | 8.g.b.5 | | | |

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| | Apply the Pythagorean Theorem | 8.g.b.6,7,8 | | | |
| Quarter: 3 Polynomials | Understanding Polynomials | a.apr.1 a.sse.1a a.ced.3 | Formative: homework, ixl, warm-ups, learning checks, board work, group work | Warm-up questions Notes/Examples/ Guided Practice Independent practice Delta math IXL Quizziz Edpuzzles Cooperative learning Think pair share Independent Work board work Class discussions Review work/games | Envision Mathematics Common Core book #3 EasyBridge Online Delta math IxL Edpuzzles chromebook Projector camera Calculator Common Core workbook IAR practice assessments |
| | Adding and subtracting polynomials | a.apr.1 a.sse.2 a.ced.1 | Summative: mid chapter quiz Test | | |
| | Multiplying polynomials | a.apr.1 a.sse.2 a.ced.1 | | | |
| Quarter: 3 Factoring Polynomials | GCF and factoring GCF/grouping | a.sse.2,3 | Formative: homework, ixl, warm-ups, learning checks, board work, group work | Warm-up questions Notes/Examples/ Guided Practice Independent practice Delta math IXL Quizziz Edpuzzles Cooperative learning Think pair share Independent Work board work Class discussions Review work/games | Envision Mathematics Common Core book #3 EasyBridge Online Delta math IxL Edpuzzles chromebook Projector camera Calculator Common Core workbook IAR practice assessments |
| | Factroing a=1 | a.sse.2,3 | Summative: mid chapter quiz Test | | |
| | Factroing a >1 | a.sse.2,3 | | | |
| Quarter: 4 Quadratic Equations | Solve quadratic equations by factoring | hsa.rei.b.4.b hsa.sse.b.3.a hsa.apr.b.3 hsa.if.c8.8.a | Formative: homework, ixl, warm-ups, learning checks, board work, group work | Warm-up questions Notes/Examples/ Guided Practice Independent practice Delta math IXL Quizziz Edpuzzles Cooperative learning Think pair share Independent Work board work Class discussions Review work/games | Envision Mathematics Common Core book #3 EasyBridge Online Delta math IxL Edpuzzles chromebook Projector camera Calculator Common Core workbook IAR practice assessments |
| | Solve quadratic equations by using the quadratic formula | hsa.sse.b.3 hsa.ced.a.1 hsa.rei.b.4 | Summative: mid chapter quiz Test | | |
| | Using the discriminant to check the | hsa.sse.b.3 | | | |

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| | solutions of a quadratic equation | hsa.ced.a.1 hsa.rei.b.4 | | Class discussions Review work/games | |
| Quarter: 4 Quadratic Functions | Components of a Parabola | hsa.rei.b.4.b | Formative: homework, ixl, warm-ups, learning checks, board work, group work Summative: mid chapter quiz Test | Warm-up questions Notes/Examples/ Guided Practice Independent practice Delta math IXL Quizziz Edpuzzles Cooperative learning Think pair share Independent Work board work Class discussions Review work/games | Envision Mathematics Common Core book #3 EasyBridge Online Delta math Ixl Edpuzzles chromebook Projector camera Calculator Common Core workbook IAR practice assessments |
| | Graphing Quadratic Functions | hsa.rei.b.4.b hsa.sse.b.3.a hsa.apr.b.3 hsa.if.c.8.8.a | | | |
| | Using Quadratic Functions in context | hsa.rei.b.4.b hsa.sse.b.3.a hsa.apr.b.3 hsa.if.c.8.8.a | | | |
| Quarter: 4 Exponential Functions | Exponential Functions | hsf.if.b.4,5 hsf.b.f.a1 hsf.le.a.1 hsf.if.c.7 | Formative: homework, ixl, warm-ups, learning checks, board work, group work Summative: mid chapter quiz Test | Warm-up questions Notes/Examples/ Guided Practice Independent practice Delta math IXL Quizziz Edpuzzles Cooperative learning Think pair share Independent Work board work Class discussions Review work/games | Envision Mathematics Common Core book #3 EasyBridge Online Delta math Ixl Edpuzzles chromebook Projector camera Calculator Common Core workbook IAR practice assessments |
| | Graphing Exponential Functions | hsf.if.b.4,5 hsf.b.f.a1 hsf.le.a.1 hsf.if.c.7 | | | |
| | Exponential Growth and Decay/ Compound Interest | hsa.sse.a.1,3 hsa.ced.a.2 hsf.le.a.1.c hsf.le.a.2 hsf.le.b.5 hsf.if.b.6 | | | |