

Course Name/Number: Pre-Algebra
Grade Level: 8

Curriculum Map

| 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 | | | |
| | Properties of exponents | 8.ee.a.1 | | | |
| | Understanding Scientific Notation | 8.ee.a.3 | | | |
| | Operations with scientific notation | 8.ee.a.3 | | | |
| 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 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 |
| | 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 | | | |
| | Solve multistep equations | 8.ee.c.7a | | | |
| | Equations with many or no solution | 8.ee.c.7a | | | |

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|---|---|--------------------|--|--|--|
| Quarter: 2 Topic: Equations with 2 Variables | Proportional Relationships Constant of proportionality | 8.ee.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 |
| | Compare Proportional Relationships | 8.ee.b.5 | | | |
| | Proportional Relationships and Slope | 8.ee.b.6 | | | |
| | Analyze linear equations $y = mx$ | 8.ee.b.6 | | | |
| | Understand the y-intercept of a line | 8.ee.b.6 | | | |
| | Analyze linear equations $y = mx + b$ | 8.ee.b.6 | | | |
| 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 |
| | Connect Representations and Functions | 8.f.a.1 | | | |
| | Compare Linear and Nonlinear Functions | 8.f.a.1 8.f.a.3 | | | |
| | Construct Functions to model Linear Relationships | 8.f.a.2 8.f.b.4 | | | |
| | Intervals of Increase and Decrease | 8.f.b.5 | | | |
| | Sketch Functions from Verbal Descriptions | 8.f.b.5 | | | |
| Quarter: 3 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 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 | | | |

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| Quarter: 4 Congruence and Similarity | Understanding Congruent Figures translations/reflections/rotations | 8.g.a.1a, 1b, 1c 8.g.a.3 8.g.a.2 | 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 |
| | Dilations | 8.g.a.3 8.g.a.4 | | | |
| | Similar Figures | 8.g.a.3 8.g.a.4 | | | |
| | Measurements of Similar Figures | 8.g.a.3 8.g.a.4 | | | |
| Quarter: 4 Two-Way Frequency Tables | Interpret 2-way frequency tables | 8.sp.a.4 | 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 |
| | Relative frequency | 8.sp.a.4 | | | |
| | Associations in relative frequency tables | 8.sp.a.4 | | | |