

8th Grade Math Curriculum Map

| Unit Title/ Due Dates / Essential Questions | Core Content & CC Standards | Resources/Materials/ Assessments |
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| <p>Unit 1: The Real Number System (chapter 1-3)</p> <p>Essential Questions: What are real numbers?; How can real numbers be used in real-world situations?; How can we analyze connections between linear equations and use them to solve problems?; How can you use functions to model linear relationships?</p> | <p>Core Content: real numbers, linear equations, relationships</p> <p>CC Standards:</p> <p>8.EE.A-Work with radicals and integer exponents 8.EE.B Understand the connections between proportional relationships, lines, and linear equations 8. NS.A -Know that there are numbers that are not rational, and approximate them by rational numbers 8.F.A -Define, evaluate, and compare functions; Use functions to model relationships between quantities</p> | <p>Resources: pearsonrealize.com, mathaids.com, textbook, math-aids.com, videos, deltamath.com</p> <p>Assessment: classwork, homework, tests, quizzes, performance tasks</p> |
| <p>Unit 2: Data (Chapter 4)</p> <p>Essential Questions: How can you represent the relationship between paired data and use the representation to make predictions?</p> | <p>Core Content: Investigate data</p> <p>CC Standards: 8.SP.A-Investigate patterns of association in bivariate data</p> | <p>Resources: pearsonrealize.com, mathaids.com, textbook, math-aids.com, videos, deltamath.com</p> <p>Assessment: classwork, homework, tests, quizzes, performance tasks</p> |

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| <p>Unit 3: Functions (Chapter 5- 7)</p> <p>Essential Questions: What does it mean to solve a system of linear equations?; How can we represent that two figures are either congruent or similar?; How can you use the Pythagorean theorem to solve real-world problems?</p> | <p>Core Content: Solve equations, congruence, Pythagorean theorem</p> <p>CC Standards: 8.EE.C -Analyze and solve linear equations and pairs of simultaneous linear equations. 8.G.A -Understand congruence and similarity using physical models, transparencies, or geometry software 8.G.B- Understand and apply the Pythagorean Theorem</p> | <p>Resources: pearsonrealize.com, mathaids.com, textbook, math-aids.com, deltamath.com</p> <p>Assessment: classwork, homework, tests, quizzes, performance tasks</p> |
| <p>Unit 4: Geometry</p> <p>Essential Questions: How can you find volumes and surface areas of three-dimensional figures? How can we use the surface area and volume to solve real-world problems?</p> | <p>Core Content: Surface area and volume</p> <p>CC Standards: 8.G.C-Solve real-world and mathematical problems involving volume of cylinders, cones, and spheres</p> | <p>Resources: pearsonrealize.com, mathaids.com, textbook, math-aids.com, deltamath.com</p> <p>Assessment: classwork, homework, tests, quizzes, performance tasks</p> |