**8th Grade Math Curriculum Map**

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| **# Days** | **Unit Title/ Due Dates / Essential Questions** | **Core Content & CC Standards** | **Resources/Materials/ Assessments** |
| 70 Days | Unit 1: The Real Number System (chapter 1-3)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? | Core Content: real numbers, linear equations, relationshipsCC Standards: 8.EE.A-Work with radicals and integer exponents8.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 numbers8.F.A -Define, evaluate, and compare functions; Use functions to model relationships between quantities | Resources: pearsonrealize.com, mathaids.com, textbook, math-antics videos, deltamath.comAssessment: classwork, homework, tests, quizzes, performance task |
| 20 Days | Unit 2: Data (Chapter 4)Essential Questions:How can you represent the relationship between paired data and use the representation to make predictions? | Core Content: Investigate data CC Standards: 8.SP.A-Investigate patterns of association in bivariate data | Resources: pearsonrealize.com, mathaids.com, textbook, math-antics videos, deltamath.comAssessment: classwork, homework, tests, quizzes, performance task |
| 50 Days | Unit 3: Functions (Chapter 5- 7)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? | Core Content: Solve equations, congruence, Pythagorean theoremCC 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 software8.G.B- Understand and apply the Pythagorean Theorem | Resources: pearsonrealize.com, mathaids.com, textbook, math-antics videos, deltamath.comAssessment: classwork, homework, tests, quizzes, performance task |
| 25 Days | Unit 4: GeometryEssential 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? | Core Content: Surface area and volumeCC Standards: 8.G.C-Solve real-world and mathematical problems involving volume of cylinders, cones, and spheres | Resources: pearsonrealize.com, mathaids.com, textbook, math-antics videos, deltamath.comAssessment: classwork, homework, tests, quizzes, performance task |