**6th Grade Math Curriculum Map**

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| **# Days** | **Unit Title/ Due Dates / Essential Questions** | **Core Content & CC Standards** | **Resources/Materials/ Assessments** |
| 40 Days | Unit 1: Expressions and Equations (Chapter 1-3)Essential Questions:What are expressions and how can they be written and evaluated?; What arithmetic relationships are always true?; What procedures can be used to solve equations and inequalities?; How can equations be written? What patterns can be found in tables of values?; How can expressions and equations be used to solve real-world problems?Chapter tests at the end of each chapter | Core Content: Variables and Expressions; Equations and Inequalities; Patterns and EquationsCC Standards: 6.EE.A.- Apply and extend previous understandings of arithmetic to algebraic expressions6.EE.B - Reason about and solve one-variable equations and inequalities6.EE.C - Represent and analyze quantitative relationships between dependent and independent variables | Resources: pearsonrealize.com, prodigy.com, IXL.com, mathaids.com, mathgames.com, textbookAssessment: performance tasks, quizzes, homework, classwork, chapter tests |
| 26 Days | Unit 2: The Number System (Chapter 4 & 5)Essential Question:How are adding, subtracting, and multiplying decimals the same as and different than whole numbers; How are quotients involving whole numbers and decimals estimated and found? How can estimation of whole numbers and decimals help solve real-world situations?Chapter tests at the end of each chapter | Core Content: Decimal operationsCC Standards: 6.NS.A - Apply and extend previous understandings of multiplication and division to divide fractions by fractions6.NS.B - Compute fluently with multi-digit numbers and find common factors and multiples. 6.EE.A - Apply and extend previous understandings of arithmetic to algebraic expressions6.EE.B - Reason about and solve one-variable equations and inequalities | Resources: pearsonrealize.com, prodigy.com, IXL.com, mathaids.com, mathgames.com, textbookAssessment: performance tasks, quizzes, homework, classwork, chapter tests |
| 30 Days | Unit 3: (Chapter 7 & 8)Essential Questions:What are integers?; How can you compare rational numbers? How can integers and rational numbers help us solve real-world problems?; How can integers and rational numbers be graphed on a coordinate plane?; How are equations that can relate real-world quantities be graphed? Chapter tests at the end of each chapter | Core Content: rational numbers and coordinate geometryCC Standards: 6.NS.C - Apply and extend previous understandings of numbers to the system of rational numbers6.EE.C - Represent and analyze quantitative relationships between dependent and independent variables6.G.A. - Solve real-world and mathematical problems involving area, surface area, and volume | Resources: pearsonrealize.com, prodigy.com, IXL.com, mathaids.com, mathgames.com, textbookAssessment: performance tasks, quizzes, homework, classwork, chapter tests |
| 40 Days | Unit 4: Ratios and Proportional relationships (chapter 9-11)Essential Question:What are ratios and how are they used in solving real-life situations?; What are ratios and rates?; How can rates and ratios be used to solve problems?; How can customary and metric measurements be converted?; How can measurement help us in real-world situations; what is the meaning of a percent?; how can percent be estimated and found? How can we use percent in everyday life?Chapter tests at the end of each chapter | Core Content: Ratios, Rates, and PercentCC Standards: 6.RP.A. -Understand ratio concepts and use ratio reasoning to solve problems6.EE.C- Represent and analyze quantitative relationships between dependent and independent variables | Resources: pearsonrealize.com, prodigy.com, IXL.com, mathaids.com, mathgames.com, textbookAssessment: performance tasks, quizzes, homework, classwork, chapter tests |
| 23 Days | Unit 5: Geometry (chapter 12 and 13)Essential Question:How can the area of certain shapes be found?; what is the meaning of surface area and how can it be found?; what is the meaning and how can it be found? How can surface area and volume help to solve real-world problems?Chapter tests at the end of each chapter | Core Content: Area, Surface area, and VolumeCC Standards:6.G.A- Solve real-world and mathematical problems involving area, surface area, and volume | Resources: pearsonrealize.com, prodigy.com, IXL.com, mathaids.com, mathgames.com, textbookAssessment: performance tasks, quizzes, homework, classwork, chapter tests |
| 15 Days | Unit 6: Statistics and Probability (chapter 14) Essential Question:How can graphs be used to represent data and answer questions?; How can graphs help represent real-world problems?Chapter tests at the end of each chapter | Core Content: StatisticsCC Standards: 6.SP.A - Develop understanding of statistical variability 6.SP.B - Summarize and describe distributions | Resources: pearsonrealize.com, prodigy.com, IXL.com, mathaids.com, mathgames.com, textbookAssessment: performance tasks, quizzes, homework, classwork, chapter tests |