

Grade 6 Math Scope & Sequence

1 st Six Weeks	2 nd Six Weeks
<ul style="list-style-type: none"> ❖ Unit Unit 0: SEL/<u>The First Five Days</u> (5 days) Aug.14 - Aug.20 <ul style="list-style-type: none"> ➤ Self Awareness: Recognizing Strengths ➤ Self- Management: Goal Setting ➤ Social Awareness: Respect for others ➤ Relationships Skills: Communication and Relationship-building ➤ Responsible Decision-making: Identifying and Solving Problems ❖ Unit 1: Rationals (20 days) Aug.21- Sept.19 <ul style="list-style-type: none"> ➤ Big Ideas: Students use multiplication and division to solve real-life problems involving positive rational numbers. Students represent rational numbers in a variety of forms, show equivalency to show equal parts of the same whole, and use concrete models, fractions, and decimals to represent percents and benchmark fractions. Students classify rational numbers using a visual representation such as a Venn diagram to describe relationships between sets of numbers and order rational numbers. ➤ Important Concepts: <ul style="list-style-type: none"> ▪ Multiply decimals and fractions ▪ Divide decimals and fractions ▪ Define Negative Numbers ▪ Classify whole numbers and rationals ▪ Locate, Compare, and Represent Rationals numbers ▪ Students order rational numbers on a number line ▪ Comparative Language ▪ Equivalence FDP ▪ Representation (number lines, 10x10, strip diagrams) ▪ Benchmark fractions and percents ➤ Readiness TEKS: 6.2D, 6.3E, 6.4G, 6.5B ➤ Supporting TEKS: 6.2A, 6.2C, 6.2E, 6.3A, 6.3B, 6.4E, 6.4F, 6.5C 	<ul style="list-style-type: none"> ❖ Unit 2: Integer Operations & Proportional Reasoning (27 days) Sept.24- Nov.1 <ul style="list-style-type: none"> ➤ Big Ideas: Students locate and order rational numbers and models operations with integers. Students develop a sense of proportionality through an understanding of representing and solving ratios, rates, factors of change (scale factor), converting within measurement systems, and the concept of part-to-whole relationships to solve real world problems. ➤ Important Concepts: <ul style="list-style-type: none"> ▪ Prime Factorization ▪ Scale Factors ▪ Conversions ▪ Compare and Order Rationals ▪ Absolute Value ▪ Add, Subtract, Multiply, and Divide Integers ▪ Representations ▪ Percent Application ➤ Readiness TEKS: 6.3D, 6.4B, 6.4G, 6.4H, 6.5B, 6.11A ➤ Supporting TEKS: 6.2B, 6.3C, 6.4C, 6.4D, 6.4E, 6.5A

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3 rd Six Weeks	4 th Six Weeks
<ul style="list-style-type: none"> ❖ Unit 3: Expressions, Equations, and Inequalities (26 days) Nov.6 - Dec.19 <ul style="list-style-type: none"> ➤ Big Ideas: Students simplify and generate equivalent algebraic expressions using the order of operations and properties such as the distributive property. Equivalent expressions will include the use of whole number exponents as well as prime factorization. Students model and solve one variable, one step equations and inequalities to represent situations, including geometric concepts and determine if the value is true. ➤ Important Concepts: <ul style="list-style-type: none"> ▪ Properties of Operations ▪ Order of Operations ▪ Model expressions ▪ Generate Equivalent Expressions ▪ Constraints and Conditions ▪ Model, write, and Solve ➤ Readiness TEKS: 6.7A, 6.7D, 6.10A ➤ Supporting TEKS: 6.7B, 6.7C, 6.9A, 6.9B, 6.9C, 6.10B 	<ul style="list-style-type: none"> ❖ Unit 0: SEL/<u>The First Five Days</u> (5 days) Jan.7- Jan.13 <ul style="list-style-type: none"> ➤ Self Awareness: Recognizing Strengths ➤ Self- Management: Goal Setting ➤ Social Awareness: Respect for others ➤ Relationships Skills: Communication and Relationship-building ➤ Responsible Decision-making: Identifying and Solving Problems ❖ Unit 4: Two-Variable Relationships and Geometry and Measurement (26 days) <ul style="list-style-type: none"> Jan.14 - Feb.21 ➤ Big Ideas: Students use multiple representations to describe algebraic relationships in the form of $y = kx$ or $y = x + b$ to represent linear non-proportional situations from tables, graphs, and equations. Students model, write, and solve area equations with positive rational numbers for two-dimensional figures. Students extend their knowledge of measurement of two- and three-dimensional geometric figures by investigating the volume of right rectangular prisms. ➤ Important Concepts: <ul style="list-style-type: none"> ▪ Additive and Multiplicative ▪ Independent and Dependent Quantities ▪ Coordinate Plane and Ordered Pairs ▪ Formulas=Area and Volume ▪ Composition and Decomposition of Angles ▪ Conversions ➤ Readiness TEKS: 6.4H, 6.6C, 6.8D, 6.11A ➤ Supporting TEKS: 6.4A, 6.6A, 6.6B, 6.8A, 6.8B, 6.8C
5 th Six Weeks	6 th Six Weeks
<ul style="list-style-type: none"> ❖ Unit 5: Data Analysis and Personal Financial Literacy (33 days) Feb.24 - April 17 <ul style="list-style-type: none"> ➤ Big Ideas: Students use graphical representations to describe, represent, analyze, interpret and summarize numerical data and data distribution. Students analyze univariate data by looking at the 	<ul style="list-style-type: none"> ❖ Unit 0: STAAR Review (15 Days) April 20-May 11 <ul style="list-style-type: none"> ➤ Big Ideas: Students use appropriate problem-solving strategies and skills to review relevant Readiness and Supporting Standards (based on individual student diagnostic data) ➤ Important Concepts:

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measures of center and the measures of spread and use summaries to describe what the center, spread, and shape of the data distribution indicate about the data. Students develop an economic way of thinking and problem solving useful in one's life as a knowledgeable consumer and investor.

- Important Concepts:
 - Dot Plots
 - Box Plots
 - Stem-and-leaf plot
 - Histogram
 - Central Tendencies
 - Variability
 - Predictions and Conclusions
 - Financial Institutes
 - Checking Account
 - Credit Cards
 - Debit Card
 - Credit History and Reports
- Readiness TEKS: 6.12C, 6.12D, 6.13A
- Supporting TEKS: 6.12A, 6.12B, 6.13B, 6.14A, 6.14B, 6.14C, 6.14D*, 6.14E, 6.14F, 6.14G, 6.14H

- Readiness TEKS: All Assessed TEKS
- Supporting TEKS: All Assessed TEKS

❖ **Unit 6: Step Up to 7th Grade (12 days) May14-June 2**

- Big Ideas: This unit is designed to make connections between current standards and standards of subsequent courses.
- Important Concepts:
 - Proportionality
 - Equations
- Readiness TEKS: 6.4B, 6.4G, 6.4H, 6.5B, 6.6C, 6.8D, 6.10A
- Supporting TEKS: 6.5A, 6.8A, 6.8C

Processing Standards: 6.1A, 6.1B, 6.1C, 6.1D, 6.1E, 6.1F, 6.1G Taught Throughout