

# Grade 7 Mathematics Scope & Sequence

1 <sup>st</sup> Six Weeks	2 <sup>nd</sup> Six Weeks
<ul style="list-style-type: none"> <li>❖ <b>Unit 0: SEL/ (5 days) Aug.14 - Aug.20</b> <ul style="list-style-type: none"> <li>➤ <b>Self Awareness: Recognizing Strengths</b></li> <li>➤ <b>Self- Management: Goal Setting</b></li> <li>➤ <b>Social Awareness: Respect for others</b></li> <li>➤ <b>Relationships Skills: Communication and Relationship-building</b></li> <li>➤ <b>Responsible Decision-making: Identifying and Solving Problems</b></li> </ul> </li>   <li>❖ <b>Unit 1: Numbers and Equations (20 days) Aug.21- Sept. 19</b> <ul style="list-style-type: none"> <li>➤ Big Ideas: Students categorize and organize numbers in sets and subsets using visual representations. Students extend previous experiences involving numeric relationships involving addition, subtraction, multiplication and division of rational numbers in a context of real world situations. Students represent, write, model and solve two-step equations and inequalities in application situations using mathematical properties and operations.</li> <li>➤ Important Concepts:               <ul style="list-style-type: none"> <li>▪ Categorize and Organize Numbers in Sets and Subsets</li> <li>▪ Operations</li> <li>▪ Equations and Inequalities</li> <li>▪ Numeric and Algebraic Representations</li> <li>▪ Angle Relationships</li> </ul> </li> <li>➤ Readiness TEKS: 7.3B, 7.11A</li> <li>➤ Supporting TEKS: 7.2A, 7.3A, 7.10A, 7.10B, 7.10C, 7.11B, 7.11C, 7.13E</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>❖ <b>Unit 2: Proportional Reasoning and Applications (27 days) Sept.24- Nov.1</b> <ul style="list-style-type: none"> <li>➤ Big Ideas: Students solve application problems involving proportional relationships such as unit rate and conversions between measurement systems. Students solve problems involving ratios, rates, and percents. They calculate sales tax and income tax</li> <li>➤ Important Concepts:               <ul style="list-style-type: none"> <li>▪ Unit Rate</li> <li>▪ Percents</li> <li>▪ Sales Tax</li> <li>▪ Constant of Proportionality</li> <li>▪ Conversions</li> <li>▪ Similarity and Scale Drawings</li> </ul> </li> <li>➤ Readiness TEKS: 7.4A, 7.4D, 7.5C</li> <li>➤ Supporting TEKS: 7.4B, 7.4C, 7.4E, 7.5A, 7.13B</li> </ul> </li> </ul>
3 <sup>rd</sup> Six Weeks	4 <sup>th</sup> Six Weeks
<ul style="list-style-type: none"> <li>❖ <b>Unit 3: Linear Relationships and Probability (26 days) Nov.6- Dec.19</b> <ul style="list-style-type: none"> <li>➤ Big Ideas: Students represent linear relationships using multiple representations that simplify to the form <math>y = mx + b</math>. Students construct sample spaces for real world events; determine the experimental and/or theoretical probability of those events. They make decisions and</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>❖ <b>Unit 0: SEL/ (5 days) Jan.7- Jan.13</b> <ul style="list-style-type: none"> <li>➤ <b>Self Awareness: Recognizing Strengths</b></li> <li>➤ <b>Self- Management: Goal Setting</b></li> <li>➤ <b>Social Awareness: Respect for others</b></li> <li>➤ <b>Relationships Skills: Communication and Relationship-building</b></li> </ul> </li> </ul>

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<p>predictions using experimental and/or theoretical data for simple and compound events.</p> <ul style="list-style-type: none"> <li>➤ Important Concepts:             <ul style="list-style-type: none"> <li>▪ Two-Variable Equations</li> <li>▪ Constant Rate of Change (m)</li> <li>▪ y-intercept (b)</li> <li>▪ Data</li> <li>▪ Sample Space</li> <li>▪ Simulations</li> <li>▪ Simple, independent, compound, dependent events</li> <li>▪ Probability of an Event</li> <li>▪ Predictions, comparisons, and inferences</li> </ul> </li> <li>➤ Readiness TEKS: 7.4A, 7.6H, 7.6I, 7.7A</li> <li>➤ Supporting TEKS: 7.4C, 7.6A, 7.6B*, 7.6C, 7.6D, 7.6E, 7.6F*</li> </ul> <p>*SE not included in Assessed Curriculum</p>	<ul style="list-style-type: none"> <li>➤ <b>Responsible Decision-making: Identifying and Solving Problems</b></li> <li>❖ <b>Unit 4: Geometry and Measurement (26 days) Jan.14- Feb.21</b> <ul style="list-style-type: none"> <li>➤ Big Ideas: Students describe the relationship between the circumference and diameter of a circle. They use models to determine the circumference and area of circles, and connect the models to the actual formulas. They solve problems involving composite figures. Students determine the relationship between prisms and pyramids and calculate the volume and surface area of those solids.</li> <li>➤ Important Concepts:                 <ul style="list-style-type: none"> <li>▪ Two-Dimensional Figures</li> <li>▪ Three-Dimensional Figures</li> <li>▪ Composition and decomposition of figures</li> <li>▪ Formulas</li> <li>▪ Geometric Properties</li> </ul> </li> <li>➤ Readiness TEKS: 7.9A, 7.9B, 7.9C</li> <li>➤ Supporting TEKS: 7.4E, 7.5B, 7.8A*, 7.8B*, 7.8C*, 7.9D</li> </ul> </li> </ul>
<p><b>5<sup>th</sup> Six Weeks</b></p>	<p><b>6<sup>th</sup> Six Weeks</b></p>
<ul style="list-style-type: none"> <li>❖ <b>Unit 5: Data Representations and Financial Planning (33 days)</b> Feb.24- April 17             <ul style="list-style-type: none"> <li>➤ Big Ideas: Students use graphical representations to solve problems. Students represent and compare numeric data using dot plots or box plots. Students develop an economic way of thinking and problem solving useful in one's life as a knowledgeable consumer and investor.</li> <li>➤ Important Concepts:                 <ul style="list-style-type: none"> <li>▪ Numeric data</li> <li>▪ Categorical data</li> <li>▪ Populations</li> <li>▪ Numerical summaries</li> <li>▪ Conclusions and predictions</li> <li>▪ Random samples</li> <li>▪ Variability</li> </ul> </li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>❖ <b>Unit 0: STAAR (15 days) April 21- May 11</b> <ul style="list-style-type: none"> <li>➤ Big Ideas: Students use appropriate problem-solving strategies and skills to review relevant Readiness and Supporting Standards</li> <li>➤ Important Concepts:</li> <li>➤ Readiness TEKS: All Assessed TEKS</li> </ul> </li> <li>❖ Supporting TEKS: All Assessed TEKS</li> </ul> <p><b>STAAR TESTING WEEK</b></p> <p><b>Unit 6: Essential Understandings for 8th Grade (13 remaining days)</b> May 14- June 2</p> <ul style="list-style-type: none"> <li>➤ Big Ideas: <b>Algebra and Geometry</b></li> <li>➤ Important Concepts: Students extend their knowledge of graphing proportional relationships, interpreting the unit rate as the slope of the</li> </ul>

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- Dot plots
- Comparative dot plots
- Box plots
- Comparative box plots
- Simple and Compound Interest
- Financial Institutes
- Ways to pay
- Readiness TEKS: 7.6G, 7.12A
- Supporting TEKS: 7.12B, 7.12C, 7.13A, 7.13B, 7.13C, 7.13D, 7.13E, 7.13F

line that models the relationship from a table or graph to determine the rate of change or slope and y-intercept in mathematical and real-world problems with or without the use of a graphing calculator.

- Readiness TEKS: 7.7A, 7.11A, 7.9A, 7.9B, 7.9C
- Supporting TEKS: 7.10A, 7.10B, 7.10C, 7.11B, 7.11C

**Processing Standards: 7.1A, 7.1B, 7.1C, 7.1D, 7.1E, 7.1F, 7.1G Taught Throughout**