

Grade 8 Mathematics Scope & Sequence

1 st Six Weeks	2 nd Six Weeks
<ul style="list-style-type: none"> ❖ Unit 0: SEL/ (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: Numbers and Proportionality (20 Days) Aug.21-Sept.19 <ul style="list-style-type: none"> ➤ Big Ideas: Representation of Real Number and Magnitude of Real Numbers and Multiple Representations of Proportionality and Functions. ➤ Important Concepts: <ul style="list-style-type: none"> ■ Real Number System ■ Scientific Notation ■ Compare and Order ■ Identify Functions ■ Represent Proportional and Non-Proportional Situations ■ Direct Variation ■ Constant of proportionality ■ Constant of Variation k ■ Unit Rate ➤ Readiness TEKS: 8.2D, 8.4B, 8.5G ➤ Supporting TEKS: 8.2A, 8.2B, 8.2C, 8.5A, 8.5E, 8.5F, 8.5H 	<ul style="list-style-type: none"> ❖ Unit 2: Linear Relationships and Solutions (27 Days) Sept.24- Nov.1 <ul style="list-style-type: none"> ➤ Big Ideas: Identifying and Calculating Slope and Y-intercept and Represent and Solve Equations and Inequalities. ➤ Important Concepts: <ul style="list-style-type: none"> ■ Slope and Y-intercept ■ Writing Equations ■ Numerical ■ Tabular ■ Verbal ■ Graphical ■ Model and Solve one variable equations with variables on both sides ■ Model and Solve one variable inequalities with variables on both sides ■ Write Real-world situations ■ System of Equation Solutions ➤ Readiness TEKS: 8.4B, 8.4C, 8.5I, 8.8C ➤ Supporting TEKS: 8.4A, 8.5A, 8.5B, 8.8A, 8.8B, 8.9A, 8.12A, 8.12B*
3 rd Six Weeks	4 th Six Weeks
<ul style="list-style-type: none"> ❖ Unit 3: Financial Planning and Angles (26 Days) Nov.6- Dec.19 <ul style="list-style-type: none"> ➤ Big Ideas: Students will apply irrational numbers, approximating square roots of non-perfect square numbers, and investigate the well-known Pythagorean Theorem to solve for missing measures in right triangles. Triangles and Transversals and become knowledgeable Consumer and Investors. 	<ul style="list-style-type: none"> ❖ Unit 0: SEL/ (5 days) <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

Grade 8 Mathematics Scope & Sequence

<ul style="list-style-type: none"> ➤ Important Concepts: <ul style="list-style-type: none"> ■ Simple and Compound Interest ■ Loans ■ Advantages and Disadvantages of payment methods ■ Explain Proof of Pythagorean Theorem and Converse ■ Distance between two points on Coordinate Grid ■ Square Roots and Irrationals ■ Interior Triangles Angles Sum ■ Remote Interior ■ Parallel lines cut by a Transversal ➤ Readiness TEKS: 8.7C, 8.12D ➤ Supporting TEKS: 8.2B, 8.6C, 8.7D, 8.8D, 8.12A, 8.12B*, 8.12C, 8.12E*, 8.12F*, 8.12G 	<ul style="list-style-type: none"> ❖ Unit 4: Geometry and Measurement (26 Days) Jan.14- Feb.21 <ul style="list-style-type: none"> ➤ Big Ideas: Surface Area and Volume and Similarity and Orientation of Figures on a Coordinate Plane ➤ Important Concepts: <ul style="list-style-type: none"> ■ Volume of Cylinders, Cones, and Spheres ■ Lateral and Total Surface Area of prisms and cylinders ■ Transformations-Translation, Reflection, Rotation ■ Dilations-Enlargement, Reduction ■ Algebraic Representation (Motion Rules) ■ Scale Factor ■ Similarity ➤ Readiness TEKS: 8.3C, 8.7A, 8.7B, 8.10C ➤ Supporting TEKS: 8.3A, 8.3B, 8.6A, 8.6B*, 8.10A, 8.10B, 8.10D,
<p>5th Six Weeks</p>	<p>6th Six Weeks</p>
<ul style="list-style-type: none"> ❖ Unit 5: Data Analysis (15 Days) Feb.24- March 16 and April 13-April 17 <ul style="list-style-type: none"> ➤ Big Ideas: Representation and Interpretation of Data ➤ Important Concepts: <ul style="list-style-type: none"> ■ Univariate Data ■ Bivariate Data ■ Scatterplots ■ Trend lines ➤ Readiness TEKS: 8.5D ❖ Supporting TEKS: 8.5C, 8.11A, 8.11B, 8.11C* ❖ Unit 0: STAAR Review (15 Days) <ul style="list-style-type: none"> ➤ Big Ideas: Assessed TEKS ➤ Important Concepts: ➤ Readiness TEKS: Assessed ➤ Supporting TEKS: Assessed 	<ul style="list-style-type: none"> ❖ Unit 6: Step up to Algebra (25 days) April 20-June 2 <ul style="list-style-type: none"> ➤ Big Ideas: Essential Understandings of Algebra ➤ Important Concepts: ➤ Readiness TEKS: 8.4B, 8.5D, 8.5I ➤ Supporting TEKS: 8.5A, 8.5B, 8.5C, 8.9A, 8.11A ❖ Big STAAR Week May 5-May 8 <p>Processing Standards: <u>8.1A, 8.1B, 8.1C, 8.1D, 8.1E, 8.1F, 8.1G</u> Taught Throughout</p>

Grade 8 Mathematics Scope & Sequence
