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<th>ESSENTIAL UNITS OF STUDY</th>
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<tr>
<td>01 Real Numbers &amp; Applications</td>
<td>This unit is about the relationships in the real number system, including rational and irrational numbers. Students will also learn to convert between standard and scientific notations, and use the Pythagorean Theorem and its converse to solve problems.</td>
<td>8.2D 8.7C</td>
<td>8.2ABC 8.6C 8.7D Process: All</td>
<td>CK-12 Real Numbers &amp; Applications</td>
</tr>
<tr>
<td>02 Equations and Inequalities with Variables on Both Sides</td>
<td>This unit is about modeling and solving equations with variables on both sides using rational number coefficients and constants. Students will also be expected to write an equation or inequality given a real-world situation and a real-world situation when given an equation or inequality.</td>
<td>8.8C</td>
<td>8.8AB Process: All</td>
<td>CK-12 Equations and Inequalities with Variables on Both Sides</td>
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<tr>
<td>03 Proportionality: Attributes of Linear Relationships</td>
<td>This unit sets the foundations for functions, through multiple representations of proportional and nonproportional relationships. Students will make connections between unit rate, rate of change, slope, and scale factor.</td>
<td>8.4BC 8.5G1 7.4A</td>
<td>8.4A 8.5ABEFH 8.9 7.4C Process: All</td>
<td>CK-12 Proportionality: Attributes of Linear Relationships</td>
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<tr>
<td>04 Statistical Procedures to Describe Data</td>
<td>This unit is about analyzing bivariate sets of data through scatterplots and trend lines. Students will also explore sampling and mean absolute deviation.</td>
<td>8.5D</td>
<td>8.5C 8.11ABC 7.12BC Process: All</td>
<td>CK-12 Statistical Procedures to Describe Data</td>
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<tr>
<td>05 Geometry: Applications in Surface Area and Volume</td>
<td>This unit is about understanding the relationship between the volumes of cones and cylinders. Students will also solve for the volume of cylinders, cones and spheres, and lateral and total surface area for rectangular and triangular prisms and cylinders.</td>
<td>8.7AB 7.9A</td>
<td>8.6A 8.8AB 7.9D Process: All</td>
<td>CK-12 Statistical Procedures to Describe Data</td>
</tr>
<tr>
<td>06 Transformational Geometry</td>
<td>This unit is about exploring the effects of transformations (reflections, rotations, translations, and dilations) on geometric figures.</td>
<td>8.3C 8.10C 7.5C</td>
<td>8.3AB 8.8D 8.10ABD 7.5A Process: All</td>
<td>CK-12 Transformational Geometry</td>
</tr>
<tr>
<td>07 Personal Financial Literacy: Interest &amp; Financial Decision Making</td>
<td>This unit is about developing an economic way of thinking and problem solving useful in one’s life as a knowledgeable consumer and investor. Students will explore loans, investments, interest, and paying for college.</td>
<td>CBA II Feb 25 - 28, 2020 (EUS 1 - 6)</td>
<td>8.12D</td>
<td>CK-12 Personal Financial Literacy: Interest &amp; Financial Decision Making</td>
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<tr>
<td>08 Probability</td>
<td>Students will find the probability and make predictions based on simple and compound events, both experimentally and theoretically.</td>
<td>7th Math STAAR Test May 8, 2020 for 7th PACE</td>
<td>8.12ABCEF 7.13CE Process: All</td>
<td>CK-12 Probability</td>
</tr>
</tbody>
</table>

**RESOURCES**

- CK-12 Real Numbers & Applications
- CK-12 Equations and Inequalities with Variables on Both Sides
- CK-12 Proportionality: Attributes of Linear Relationships
- CK-12 Statistical Procedures to Describe Data
- CK-12 Geometry: Applications in Surface Area and Volume
- CK-12 Transformational Geometry
- CK-12 Personal Financial Literacy: Interest & Financial Decision Making

**RECOMMENDED TOPICS FOR AFTER STAAR:**

- Fractions
- Integers
- Solving Equations
- Graphing Equations
- Multiple Representations/4-Corners
- Properties

**READINESS TEKS**

- 8.2D
- 8.7C
- 8.8C
- 8.4BC 8.5G1 7.4A
- 8.5D
- 8.7AB 7.9A
- 8.3C 8.10C 7.5C
- 8.12D
- 7.6HI