

## STAAR Alternate 2 Spring 2024 Grade 6 Mathematics Essence Statements

| STAAR Reporting Category 1  | STAAR Reporting Category 2   | STAAR Reporting Category 3  | STAAR Reporting Category 4   |
|---|--|---|--|
| <p><b>Numerical Representations and Relationships:</b> The student will demonstrate an understanding of how to represent and manipulate numbers and expressions.</p>  | <p><b>Computations and Algebraic Relationships:</b> The student will demonstrate an understanding of how to perform operations and represent algebraic relationships.</p>  | <p><b>Geometry and Measurement:</b> The student will demonstrate an understanding of how to represent and apply geometry and measurement concepts.</p>  | <p><b>Data Analysis and Personal Financial Literacy:</b> The student will demonstrate an understanding of how to represent and analyze data and how to describe and apply personal financial concepts.</p>   |
| <p><b>Knowledge and Skills Statement (6.2) Number and operations.</b> The student applies mathematical process standards to represent and use rational numbers in a variety of forms. (Readiness and Supporting Standard)<br/><b>Essence Statement</b><br/>Recognizes relationships in and between sets of numbers.</p> <p><b>Knowledge and Skills Statement (6.7) Expressions, equations, and relationships.</b> The student applies mathematical process standards to develop concepts of expressions and equations. (Readiness and Supporting Standard)<br/><b>Essence Statement</b><br/>Determine equivalent expressions and equations.</p> | <p><b>Knowledge and Skills Statement (6.3) Number and operations.</b> The student applies mathematical process standards to represent addition, subtraction, multiplication, and division while solving problems and justifying solutions. (Readiness and Supporting Standard)<br/><b>Essence Statement</b><br/>Finds solutions to addition, subtraction, multiplication, or division problems.</p> <p><b>Knowledge and Skills Statement (6.4) Proportionality.</b> The student applies mathematical process standards to develop an understanding of proportional relationships in problem situations. (Readiness and Supporting Standard)<br/><b>Essence Statement</b><br/>Uses proportional relationships to solve problems.</p> <p><b>Knowledge and Skills Statement (6.5) Proportionality.</b> The student applies mathematical process standards to solve problems involving proportional relationships. (Readiness and Supporting Standard)<br/><b>Essence Statement</b><br/>Solves problems involving ratios or rates.</p> | <p><b>Knowledge and Skills Statement (6.4) Proportionality.</b> The student applies mathematical process standards to develop an understanding of proportional relationships in problem situations. (Readiness Standard)<br/><b>Essence Statement</b><br/>Uses conversions within a measurement system to solve problems.</p> <p><b>Knowledge and Skills Statement (6.11) Measurement and data.</b> The student applies mathematical process standards to use coordinate geometry to identify locations on a plane. (Readiness Standard)<br/><b>Essence Statement</b><br/>Locates points on a coordinate plane.</p> | <p><b>Knowledge and Skills Statement (6.12) Measurement and data.</b> The student applies mathematical process standards to use numerical or graphical representations to analyze problems. (Readiness and Supporting Standard)<br/><b>Essence Statement</b><br/>Displays data or determines characteristics of data.</p> <p><b>Knowledge and Skills Statement (6.13) Measurement and data.</b> The student applies mathematical process standards to use numerical or graphical representations to solve problems. (Readiness and Supporting Standard)<br/><b>Essence Statement</b><br/>Interprets graphical representations of data.</p> |

**Knowledge and Skills Statement**  
**(6.6) Expressions, equations, and relationships.** The student applies mathematical process standards to use multiple representations to describe algebraic relationships. (Readiness and Supporting Standard)  
**Essence Statement**  
Identifies linear relationships in a variety of forms.

**Knowledge and Skills Statement**  
**(6.9) Expressions, equations, and relationships.** The student applies mathematical process standards to use equations and inequalities to represent situations. (Supporting Standard)  
**Essence Statement**  
Uses equations or inequalities to model real-life situations.