# STAAR Alternate 2 Spring 2021
# Grade 5 Mathematics Essence Statements

| STAAR Reporting Category 1 | STAAR Reporting Category 2 | STAAR Reporting Category 3 | STAAR Reporting Category 4 |
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| **Numerical Representations and Relationships:** The student will demonstrate an understanding of how to represent and manipulate numbers and expressions. | **Computations and Algebraic Relationships:** The student will demonstrate an understanding of how to perform operations and represent algebraic relationships. | **Geometry and Measurement:** The student will demonstrate an understanding of how to represent and apply geometry and measurement concepts. | **Data Analysis and Personal Financial Literacy:** The student will demonstrate an understanding of how to represent and analyze data and how to describe and apply personal financial concepts. |
| **Knowledge and Skills Statement**<br>**(5.2) Number and operations.** The student applies mathematical process standards to represent, compare, and order positive rational numbers and understand relationships as related to place value. (Readiness and Supporting Standard)<br>**Essence Statement**<br>Uses numbers to demonstrate an understanding of place value.<br><br>**Knowledge and Skills Statement**<br>**(5.4) Algebraic reasoning.** The student applies mathematical process standards to develop concepts of expressions and equations. (Readiness and Supporting Standard)<br>**Essence Statement**<br>Simplifies numeric expressions. | **Knowledge and Skills Statement**<br>**(5.3) Number and operations.** The student applies mathematical process standards to develop and use strategies and methods for positive rational number computations in order to solve problems with efficiency and accuracy. (Readiness and Supporting Standard)<br>**Essence Statement**<br>Solves problems using operation.<br><br>**Knowledge and Skills Statement**<br>**(5.4) Algebraic reasoning.** The student applies mathematical process standards to develop concepts of expressions and equations. (Readiness and Supporting Standard)<br>**Essence Statement**<br>Models or solves problems involving whole number relationships or patterns. | **Knowledge and Skills Statement**<br>**(5.4) Algebraic reasoning.** The student applies mathematical process standards to develop concepts of expressions and equations. (Readiness Standard)<br>**Essence Statement**<br>Solves problems involving perimeter, area, or volume.<br><br>**Knowledge and Skills Statement**<br>**(5.5) Geometry and measurement.** The student applies mathematical process standards to classify two-dimensional figures by attributes and properties. (Readiness Standard)<br>**Essence Statement**<br>Classifies two-dimensional geometric figures by attributes and properties.<br><br>**Knowledge and Skills Statement**<br>**(5.6) Geometry and measurement.** The student applies mathematical process standards to understand, recognize, and quantify volume. (Supporting Standard)<br>**Essence Statement**<br>Determines volume of rectangular prisms. | **Knowledge and Skills Statement**<br>**(5.9) Data analysis.** The student applies mathematical process standards to solve problems by collecting, organizing, displaying, and interpreting data. (Readiness and Supporting Standard)<br>**Essence Statement**<br>Uses graphs to organize and interpret data.<br><br>**Knowledge and Skills Statement**<br>**(5.10) Personal financial literacy.** The student applies mathematical process standards to manage one's financial resources effectively for lifetime financial security**.** (Supporting Standard)<br>**Essence Statement**<br>Determines how to balance a simple budget. |

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| | | **Knowledge and Skills Statement**<br>**(5.7) Geometry and measurement.** The student applies mathematical process standards to select appropriate units, strategies, and tools to solve problems involving measurement. (Supporting Standard)<br>**Essence Statement**<br>Use conversions within a measurement system to solve problems.<br><br>**Knowledge and Skills Statement**<br>**(5.8) Geometry and measurement.** The student applies mathematical process standards to identify locations on a coordinate plane. (Readiness and Supporting Standard)<br>**Essence Statement**<br>Locates points on a coordinate plane. | |