

## STAAR Alternate 2 Spring 2019 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)</p> <p><b>Essence Statement</b> Recognizes relationships in and between sets of numbers.</p> <hr style="width: 10%; margin: 10px auto;"/> <p><b>Knowledge and Skills Statement (6.5) Proportionality.</b> The student applies mathematical process standards to solve problems involving proportional relationships. (Supporting Standard)</p> <p><b>Essence Statement</b> Recognizes equal parts of a whole using equivalent fractions.</p>	<p><b>Knowledge and Skills Statement (6.3) Numbers 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)</p> <p><b>Essence Statement</b> Finds solutions to addition, subtraction, multiplication, or division problems.</p> <hr style="width: 10%; margin: 10px auto;"/> <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)</p> <p><b>Essence Statement</b> Uses proportional relationships to solve 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 Standard)</p> <p><b>Essence Statement</b> Uses conversions within a measurement system to solve problems.</p> <hr style="width: 10%; margin: 10px auto;"/> <p><b>Knowledge and Skills Statement (6.8) Expressions, equations, and relationships.</b> The student applies mathematical process standards to use geometry to represent relationships and solve problems. (Readiness and Supporting Standard)</p> <p><b>Essence Statement</b> Models or uses geometric relationships to solve problems.</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)</p> <p><b>Essence Statement</b> Displays data or determines characteristics of data.</p> <hr style="width: 10%; margin: 10px auto;"/> <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)</p> <p><b>Essence Statement</b> Interprets graphical representations of data.</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)</p> <p><b>Essence Statement</b> Determines equivalent expressions and equations.</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)</p> <p><b>Essence Statement</b> Solves problems involving ratios or rates.</p> <hr/> <p><b>Knowledge and Skills Statement (6.6) Expressions, equations, and relationships.</b> The student applies mathematical process standards to use multiple representations to describe algebraic relationships. (Readiness and Supporting Standard)</p> <p><b>Essence Statement</b> Identifies linear relationships in a variety of forms.</p> <hr/> <p><b>Knowledge and Skills Statement (6.9) Expressions, equations, and relationships.</b> The student applies mathematical process standards to use equations and inequalities to represent situations. (Supporting Standard)</p> <p><b>Essence Statement</b> Uses equations or inequalities to model real-life situations</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)</p> <p><b>Essence Statement</b> Locates points on a coordinate plane.</p>	
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