

Standards**Grade Six Mathematics**

Standard 1 : Mathematical Processes	Level 1	GLE 0606.1.1 Use mathematical language, symbols, and definitions while developing mathematical reasoning. GLE 0606.1.6 Read and interpret the language of mathematics and use written/oral communication to express mathematical ideas precisely.
	Level 2	GLE 0606.1.4 Move flexibly between concrete and abstract representations of mathematical ideas in order to solve problems, model mathematical ideas, and communicate solution strategies. GLE 0606.1.8 Use technologies/manipulatives appropriately to develop understanding of mathematical algorithms, to facilitate problem solving, and to create accurate and reliable models of mathematical concepts.
	Level 3	GLE 0606.1.3 Develop independent reasoning to communicate mathematical ideas and derive algorithms and/or formulas. GLE 0606.1.5 Use mathematical ideas and processes in different settings to formulate patterns, analyze graphs, set up and solve problems and interpret solutions. GLE 0606.1.7 Recognize the historical development of mathematics, mathematics in context, and the connections between mathematics and the real world.
	Level 4	GLE 0606.1.2 Apply and adapt a variety of appropriate strategies to problem solving, including estimation, and reasonableness of the solution.

Standard 2: Number and Operations	Level 1	GLE 0606.2.3 Understand and use ratios, rates and percents.
	Level 2	GLE 0606.2.4 Understand and convert between fraction, decimal, and percent forms of rational numbers. GLE 0606.2.5 Develop meaning for integers; represent and compare quantities with integers.
	Level 3	GLE 0606.2.1 Understand and explain the procedures for multiplication and division of fractions, mixed numbers, and decimals. GLE 0606.2.2 Solve multi-step mathematical, contextual and verbal problems using fractions, mixed numbers, and decimals.
	Level 4	THIS LEVEL IS NOT REPRESENTED AT THIS GRADE

Standard 3 : Algebra	Level 1	<p>GLE 0606.3.2 Interpret and represent algebraic relationships with variables in expressions, simple equations and inequalities.</p> <p>GLE 0606.3.3 Extend order of operations to include grouping symbols and exponents.</p> <p>GLE 0606.3.6 Understand and use the Cartesian coordinate system.</p>
	Level 2	THIS LEVEL IS NOT REPRESENTED AT THIS GRADE
	Level 3	<p>GLE 0606.3.1 Write and solve two-step equations and inequalities.</p> <p>GLE 0606.3.4 Use expressions, equations and formulas to solve problems.</p>
	Level 4	<p>GLE 0606.3.5 Use multiple representations including symbolic algebra to model and/or solve contextual problems that involve linear relationships.</p>

Standard 4 : Geometry and Measurement	Level 1	THIS LEVEL IS NOT REPRESENTED AT THIS GRADE
	Level 2	THIS LEVEL IS NOT REPRESENTED AT THIS GRADE
	Level 3	<p>GLE 0606.4.1 Understand and use basic properties of triangles, quadrilaterals, and other polygons.</p> <p>GLE 0606.4.2 Use the concepts of translation, rotation, reflection, and symmetry to understand congruence in the plane.</p> <p>GLE 0606.4.3 Develop and use formulas to determine the circumference and area of circles, and the area of trapezoids, and develop strategies to find the area of composite shapes.</p> <p>GLE 0606.4.4 Develop and use formulas for surface area and volume of 3-dimensional figures.</p>
	Level 4	THIS LEVEL IS NOT REPRESENTED AT THIS GRADE

Standard 5 : Data, Probability, and Statistics	Level 1	THIS LEVEL IS NOT REPRESENTED AT THIS GRADE
	Level 2	GLE 0606.5.1 Understand the meaning of probability and how it is expressed.
	Level 3	GLE 0606.5.2 Interpret representations of data from surveys and polls, and describe sample bias and how data representations can be misleading.
	Level 4	THIS LEVEL IS NOT REPRESENTED AT THIS GRADE