

<b>Standards</b>		<b>Grade Eight Mathematics</b>
<b>Standard 1 : Mathematical Processes</b>	<b>Level 1</b>	<p>GLE 0006.1.1 Use mathematical language, symbols, and definitions while developing mathematical reasoning.</p> <p>GLE 0006.1.6 Read and interpret the language of mathematics and use written/oral communication to express mathematical ideas precisely.</p>
	<b>Level 2</b>	<p>GLE 0006.1.4 Move flexibly between concrete and abstract representations of mathematical ideas in order to solve problems, model mathematical ideas, and communicate solution strategies.</p> <p>GLE 0006.1.8 Use technologies/manipulatives appropriately to develop understanding of mathematical algorithms, to facilitate problem solving, and to create accurate and reliable models of mathematical concepts.</p>
	<b>Level 3</b>	<p>GLE 0006.1.3 Develop independent reasoning to communicate mathematical ideas and derive algorithms and/or formulas.</p> <p>GLE 0006.1.5 Use mathematical ideas and processes in different settings to formulate patterns, analyze graphs, set up and solve problems and interpret solutions.</p> <p>GLE 0006.1.7 Recognize the historical development of mathematics, mathematics in context, and the connections between mathematics and the real world.</p>
	<b>Level 4</b>	<p>GLE 0006.1.2 Apply and adapt a variety of appropriate strategies to problem solving, including estimation, and reasonableness of the solution.</p>
<b>Standard 2: Number and Operations</b>	<b>Level 1</b>	<p>GLE 0806.2.4 Understand and use the laws of exponents.</p>
	<b>Level 2</b>	<p>GLE 0806.2.1 Extend understanding of the real number system to include irrational numbers.</p>
	<b>Level 3</b>	<p>GLE 0806.2.2 Solve problems involving exponents and scientific notation using technology appropriately.</p>
	<b>Level 4</b>	<p>GLE 0806.2.3 Solve real-world problems using rational and irrational numbers.</p>

Standard 3 : Algebra	Level 1	<b>THIS LEVEL IS NOT REPRESENTED AT THIS GRADE</b>
	Level 2	GLE 0806.3.1 Recognize and generate equivalent forms for algebraic expressions. GLE 0806.3.4 Translate among verbal, tabular, graphical and algebraic representations of linear functions.
	Level 3	GLE 0806.3.2 Represent, analyze, and solve problems involving linear equations and inequalities in one and two variables. GLE 0806.3.3 Solve systems of linear equations in two variables. GLE 0806.3.5 Use slope to analyze situations and solve problems.
	Level 4	GLE 0806.3.6 Compare and contrast linear and nonlinear functions.
Standard 4 : Geometry and Measurement	Level 1	GLE 0806.4.2 Understand the relationships among the angles formed by parallel lines cut by transversals.
	Level 2	GLE 0806.4.4 Understand both metric and customary units of measurement.
	Level 3	GLE 0806.4.3 Understand the necessary levels of accuracy and precision in measurement.
	Level 4	GLE 0806.4.1 Derive the Pythagorean theorem and understand its applications. GLE 0806.4.5 Use visualization to describe or identify intersections, cross-sections, and various views of geometric figures.

Standard 5 : Data, Probability, and Statistics	Level 1	<b>THIS LEVEL IS NOT REPRESENTED AT THIS GRADE</b>
	Level 2	GLE 0806.5.1 Explore probabilities for compound, independent and/or dependent events.
	Level 3	GLE 0806.5.2 Select, create, and use appropriate graphical representations of data (including scatterplots with lines of best fit) to make and test conjectures.
	Level 4	GLE 0806.5.3 Evaluate the use of statistics in media reports.