

Standards

Algebra I

Standard 1 : Mathematical Processes	Level 1	THIS LEVEL IS NOT REPRESENTED AT THIS GRADE
	Level 2	THIS LEVEL IS NOT REPRESENTED AT THIS GRADE
	Level 3	<p>CLE 3102.1.1 Use mathematical language, symbols, definitions, proofs and counterexamples correctly and precisely in mathematical reasoning.</p> <p>CLE 3102.1.4 Move flexibly between multiple representations (contextual, physical, written, verbal, iconic/pictorial, graphical, tabular, and symbolic), to solve problems, to model mathematical ideas, and to communicate solution strategies.</p> <p>CLE 3102.1.5 Recognize and use mathematical ideas and processes that arise in different settings, with an emphasis on formulating a problem in mathematical terms, interpreting the solutions, mathematical ideas, and communication of solution strategies.</p> <p>CLE 3102.1.6 Employ reading and writing to recognize the major themes of mathematical processes, the historical development of mathematics, and the connections between mathematics and the real world.</p>
	Level 4	<p>CLE 3102.1.2 Apply and adapt a variety of appropriate strategies to problem solving, including testing cases, estimation, and then checking induced errors and the reasonableness of the solution.</p> <p>CLE 3102.1.3 Develop inductive and deductive reasoning to independently make and evaluate mathematical arguments and construct appropriate proofs; include various types of reasoning, logic, and intuition.</p> <p>CLE 3102.1.7 Use technologies appropriately to develop understanding of abstract mathematical ideas, to facilitate problem solving, and to produce accurate and reliable models.</p>

Standard 2: Number and Operations	Level 1	THIS LEVEL IS NOT REPRESENTED AT THIS GRADE
	Level 2	CLE 3102.2.2 Understand properties of and relationships between subsets and elements of the real number system.
	Level 3	CLE 3102.2.1 Understand computational results and operations involving real numbers in multiple representations.
	Level 4	THIS LEVEL IS NOT REPRESENTED AT THIS GRADE

Standard 3 : Algebra	Level 1	CLE 3102.3.3 Understand and apply operations with rational expressions and equations.
	Level 2	CLE 3102.3.1 Use algebraic thinking to analyze and generalize patterns. CLE 3102.3.5 Manipulate formulas and solve literal equations.
	Level 3	CLE 3102.3.2 Understand and apply properties in order to perform operations with, evaluate, simplify, and factor expressions and polynomials. CLE 3102.3.4 Solve problems involving linear equations and linear inequalities. CLE 3102.3.8 Solve and understand solutions of quadratic equations with real roots. CLE 3102.3.9 Understand and use exponential functions to solve contextual problems.
	Level 4	CLE 3102.3.6 Understand and use relations and functions in various representations to solve contextual problems. CLE 3102.3.7 Construct and solve systems of linear equations and inequalities in two variables by various methods.

Standard 4 : Geometry and Measurement	Level 1	CLE 3102.4.2 Apply appropriate units of measure and convert measures in problem solving situations.
	Level 2	THIS LEVEL IS NOT REPRESENTED AT THIS GRADE
	Level 3	CLE 3102.4.1 Use algebraic reasoning in applications involving geometric formulas and contextual problems.
	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	THIS LEVEL IS NOT REPRESENTED AT THIS GRADE
	Level 3	CLE 3102.5.1 Describe and interpret quantitative information.
	Level 4	CLE 3102.5.2 Use statistical thinking to draw conclusions and make predictions. CLE 3102.5.3 Understand basic counting procedures and concepts of probability.