STAAR Alternate Operational Test Spring 2013
Algebra I
Essence Statements

Note: The yellow highlight and alphabetical reference indicate the four state-required essence statements that comprise the STAAR Alternate assessment for Algebra I.

STAAR Reporting Category	TEKS Knowledge and Skills Statement	Essence Statement
STAAR Reporting Category 1 – Functional Relationships: The student will describe functional relationships in a variety of ways.	**Algebra (1) Foundations for functions.** The student understands that a function represents a dependence of one quantity on another and can be described in a variety of ways.	(A) Shows a basic understanding of functions.
STAAR Reporting Category 2 – Properties and Attributes of Functions: The student will demonstrate an understanding of the properties and attributes of functions.	**Algebra (2) Foundations for functions.** The student uses the properties and attributes of functions.	Uses properties and attributes of functions.
STAAR Reporting Category 2 – Properties and Attributes of Functions: The student will demonstrate an understanding of the properties and attributes of functions.	**Algebra (3) Foundations for functions.** The student understands how algebra can be used to express generalizations and recognizes and uses the power of symbols to represent situations.	Uses symbols to represent situations.
STAAR Reporting Category 2 – Properties and Attributes of Functions: The student will demonstrate an understanding of the properties and attributes of functions.	**Algebra (4) Foundations for functions.** The student understands the importance of the skills required to manipulate symbols in order to solve problems and uses the necessary algebraic skills required to simplify algebraic expressions and solve equations and inequalities in problem situations.	(B) Uses mathematical skills to simplify expressions and solve problems.
STAAR Reporting Category 3 – Linear Functions: The student will demonstrate an understanding of linear functions.	**Algebra (5) Linear functions.** The student understands that linear functions can be represented in different ways and translates among their various representations.	(C) Understands different representations of linear functions.
STAAR Reporting Category 3 – Linear Functions: The student will demonstrate an understanding of linear functions.	**Algebra (6) Linear functions.** The student understands the meaning of the slope and intercepts of the graphs of linear functions and zeros of linear functions and interprets and describes the effects of changes in parameters of linear functions in real-world and mathematical situations.	Recognizes slope and intercepts and how they are affected by change.

Copyright © March 2012, Texas Education Agency. All rights reserved. Reproduction of all or portions of this work is prohibited without express written permission from the Texas Education Agency.

STAAR Reporting Category	TEKS Knowledge and Skills Statement	Essence Statement
STAAR Reporting Category 4 – Linear Equations and Inequalities: The student will formulate and use linear equations and inequalities.	**Algebra (8) Linear functions.** The student formulates systems of linear equations from problem situations, uses a variety of methods to solve them, and analyzes the solutions in terms of the situation.	Formulates and solves systems of linear equations.
STAAR Reporting Category 5 – Quadratic and Other Nonlinear Functions: The student will demonstrate an understanding of quadratic and other nonlinear functions.	**Algebra (9) Quadratic and other nonlinear functions.** The student understands that the graphs of quadratic functions are affected by the parameters of the function and can interpret and describe the effects of changes in the parameters of quadratic functions.	Uses the graphs of quadratic functions to predict changes.
STAAR Reporting Category 5 – Quadratic and Other Nonlinear Functions: The student will demonstrate an understanding of quadratic and other nonlinear functions.	**Algebra (10) Quadratic and other nonlinear functions.** The student understands there is more than one way to solve a quadratic equation and solves them using appropriate methods.	(D) Solves quadratic equations in a variety of ways.
STAAR Reporting Category 5 – Quadratic and Other Nonlinear Functions: The student will demonstrate an understanding of quadratic and other nonlinear functions.	**Algebra (11) Quadratic and other nonlinear functions.** The student understands there are situations modeled by functions that are neither linear nor quadratic and models the situations.	Uses models for functions that are neither linear nor quadratic.

Copyright © March 2012, Texas Education Agency. All rights reserved. Reproduction of all or portions of this work is prohibited without express written permission from the Texas Education Agency.