STAAR Alternate Operational Test Spring 2013
Geometry
Essence Statements

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

STAAR Reporting Category	TEKS Knowledge and Skills Statement	Essence Statement
STAAR Reporting Category 1 – Geometric Structure: The student will demonstrate an understanding of geometric structure.	**Geometry (1) Geometric structure.** The student understands the structure of, and relationships within, an axiomatic system.	(A) Recognizes the foundations of geometric concepts.
STAAR Reporting Category 1 – Geometric Structure: The student will demonstrate an understanding of geometric structure.	**Geometry (2) Geometric structure.** The student analyzes geometric relationships in order to make and verify conjectures.	Makes conclusions about geometric relationships.
STAAR Reporting Category 1 – Geometric Structure: The student will demonstrate an understanding of geometric structure.	**Geometry (3) Geometric structure.** The student applies logical reasoning to justify and prove mathematical statements.	Uses reasoning to justify mathematical statements.
STAAR Reporting Category 2 – Geometric Patterns and Representations: The student will demonstrate an understanding of geometric patterns and representations.	**Geometry (4) Geometric structure.** The student uses a variety of representations to describe geometric relationships and solve problems.	(B) Uses different representations for geometric relationships and solves problems.
STAAR Reporting Category 2 – Geometric Patterns and Representations: The student will demonstrate an understanding of geometric patterns and representations.	**Geometry (5) Geometric patterns.** The student uses a variety of representations to describe geometric relationships and solve problems.	Uses geometric relationships in a variety of ways.
STAAR Reporting Category 3 – Dimensionality and the Geometry of Location: The student will demonstrate an understanding of dimensionality and the geometry of location.	**Geometry (6) Dimensionality and the geometry of location.** The student analyzes the relationship between three-dimensional geometric figures and related two-dimensional representations and uses these representations to solve problems.	(C) Uses geometric representations to solve problems.

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 – Congruence and the Geometry of Size: The student will demonstrate an understanding of congruence and the geometry of size.	**Geometry (8) Congruence and the geometry of size.** The student uses tools to determine measurements of geometric figures and extends measurement concepts to find perimeter, area, and volume in problem situations.	Uses tools to solve measurement problems.
STAAR Reporting Category 4 – Congruence and the Geometry of Size: The student will demonstrate an understanding of congruence and the geometry of size.	**Geometry (9) Congruence and the geometry of size.** The student analyzes properties and describes relationships in geometric figures.	Analyzes geometric relationships in figures.
STAAR Reporting Category 4 – Congruence and the Geometry of Size: The student will demonstrate an understanding of congruence and the geometry of size.	**Geometry (10) Congruence and the geometry of size.** The student applies the concept of congruence to justify properties of figures and solve problems.	(D) Uses the concept of congruence in geometric figures.
STAAR Reporting Category 5 – Similarity and the Geometry of Shape: The student will demonstrate an understanding of similarity and the geometry of shape.	**Geometry (11) Similarity and the geometry of shape.** The student applies the concepts of similarity to justify properties of figures and solve problems.	Uses the concept of similarity in geometric figures.

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.