

Geometry In-Depth Topics (correlation to STAAR/EOC)

Legend:

Example **3[R]-G.5(B)**

- 3, The reporting category
- [R], Either Readiness or Supporting
- G.5, The TEKS
- (B) Expectation

[P], indicates a prerequisite skill

Topic A: Sign rules **[P]**

Topic B: Derivation of the quadratic formula **[P]**

Topic C: Conic section applications and equation derivations **3[S]G.6(A)**

Topic D: Euclidean/non-Euclidean geometry **1[S]-G.1(B,C)**

Topic E: Constructions **1[S]-G.2(A)**

Topic F: Exterior Angle Sum Theorem **1[R]-G.2(B)**

Topic G: Interior Angle Sum Theorem **1[R]-G.2(B)**

Topic H: Derivation of the Sine Law

Topic I: Derivation of the Cosine Law

Topic J: Derivation of a triangle area formula **4[R]-G.8(A)**

Topic K: Analytic Geometry and the use of Equations in Geometry **1[R]-G.2(B);**
3[S]- G.7(A); 3[R]-G.7(B,C)

Topic L: Area & volume density and associated unit conversions **4[S]-G.8(F)**

Topic M: Deductive and Inductive reasoning **1[S]-G.3(D,E)**

Topic N: Areas of regular polygons by apothem-perimeter **1[R]-G.2(B);**
4[R]-G.8(A)

Topic O: Tessellations **2[R]-G.5(C)**

Topic P: Fractals **2[R]-G.5(C)**