

## Essential Outcomes: High School Geometry Team Example

G.1.F: Explain the role of definitions, undefined terms, postulates (axioms), and theorems.

We broke this standard into two: G.1.F (definitions) and G.1.F (postulates)

G.2.B: Know, prove, and apply theorems about angles.

G.2.D: Describe the intersection of lines in the plane and in space, of lines and planes, and of planes in space.

G.4.B: Determine the coordinates of a point that is described geometrically.

Power Standards for Unit 3:

G.2.A: Know, prove, and apply theorems about parallel and perpendicular lines.

G.2.B: Know, prove, and apply theorems about angles that arise from parallel lines intersected by a transversal.

G.4.A: Determine the equation of a line in a coordinate plane that is described geometrically, including a line through two given points, a line through a given point parallel to a given line, and a line through a given point perpendicular to a given line.

*Source: White River School District. Used with permission.*

Power Standards for Unit 2:

G.1.A: Distinguish between inductive and deductive reasoning.

G.1.D: Write the converse, inverse, and contrapositive of a valid proposition and determine their validity.

G.1.E: Identify errors or gaps in a mathematical argument and develop counterexamples to refute invalid statements about geometric relationships.

Power Standards for Unit 4:

G.3.G: Know, prove, and apply theorems about properties of polygons.

G.3.B: Determine and prove triangle congruence, triangle similarity, and other properties of triangles.