

Geometry Standards

Standards define what students should understand and be able to do. In Geometry, students will be expected to show proficiency in two standards categories, (1) **Standards of Mathematical Content** and (2) **Standards of Mathematical Practice**. Standards of Mathematical Content are a balanced combination of procedure and understanding while Standards of Mathematical Practice describe ways in which students of mathematics should engage with the subject matter.

To pass Content Standards students must meet standards on at least 50% of the assessments and on the Summative Assessment (final comprehensive test) for that content standard. **To pass Practice Standards** students only need to meet standards on at least 50% of the assessments throughout the entire trimester. Lastly, graduation standards are not extra standards but are required to graduate. Below is a list of mathematical standards of content and process we will be covering.

Geometry		
Standards of Mathematical Content	Standards of Mathematical Practice	
Foundations of Geometry <ul style="list-style-type: none"> • Undefined Terms, Precision, and Linear Measure • Properties of Angles • Geometric Constructions 	<ul style="list-style-type: none"> • Problem Solving • Model with mathematics • Attends to precision • Construct viable arguments and critique the reasoning of others 	Trimester One
Similarity <ul style="list-style-type: none"> • Scale Factor and Proportional Parts • Similar Triangles • Dilantions • Scale Models in 2D & 3D 	<ul style="list-style-type: none"> • Problem Solving • Model with mathematics • Attends to precision • Construct viable arguments and critique the reasoning of others 	
Transformations <ul style="list-style-type: none"> • Translations • Reflections • Rotations 	<ul style="list-style-type: none"> • Problem Solving • Model with mathematics • Attends to precision • Construct viable arguments and critique the reasoning of others 	Trimester Two
Circles <ul style="list-style-type: none"> • Angles, arcs and chords • Circumference and Area • Tangents 	<ul style="list-style-type: none"> • Problem Solving • Attends to precision • Construct viable arguments and critique the reasoning of others 	
Right Triangles (Graduation Standard) <ul style="list-style-type: none"> • Pythagorean Theorem • Trigonometry 	<ul style="list-style-type: none"> • Problem Solving • Model with mathematics • Attends to precision • Construct viable arguments and critique the reasoning of others 	
Area and Volume (Graduation Standard) <ul style="list-style-type: none"> • Area of Polygons and Circles • Volume 	<ul style="list-style-type: none"> • Problem Solving • Models with Mathematics • Attends to precision • Construct viable arguments and critique the reasoning of others 	Trimester Three
Logic and Reasoning <ul style="list-style-type: none"> • Coordinate Proof • Geometric Proof 	<ul style="list-style-type: none"> • Problem Solving • Model with mathematics • Attends to precision • Construct viable arguments and critique the reasoning of others 	