

M154 Coordinate Geometry Badge Portfolio: A Showcase of Your Learning

Section 1: Required Tasks

Show off what you did! Submit work (or another agreed upon way of showing your thinking) for each of the tasks listed below.

	I Can Statements	Required Tasks	Student Reflection: What new learning does the task showcase?
154.b	Use coordinates to prove simple geometric theorems algebraically.	<ul style="list-style-type: none">IM Geometry: Unit 6 Lesson 4 Warm-up: Going the Distance	
154.c	Prove the slope criteria for parallel and perpendicular lines and use them to solve geometric problems.	<ul style="list-style-type: none">IM Geometry: Unit 6 Lesson 13 Warm-up: Parallel and Perpendicular	

Section 2: Choose Your Favorites

Show off your favorite work! For each expectation, SELECT at least one task from each group to demonstrate what you are learning. Which work do you feel best showcases all of the math you have learned?

	I Can Statements	Select at least one from each set	Student Reflection: What new learning does the task showcase?
154.a	Translate between the geometric description and the equation for a conic section, specifically of a circle and parabola.	<ul style="list-style-type: none"> IM Geometry: Unit 6 Lesson 4 Activity 2: Building an Equation for a Circle IM Geometry: Unit 6 Lesson 8 Activity 1: Building an Equation for a Parabola 	
154.b	Use coordinates to prove simple geometric theorems algebraically.	(Optional if additional evidence is needed) <ul style="list-style-type: none"> IM Geometry: Unit 6 Lesson 8 Warm-up: Focus on Distance 	
154.c	Prove the slope criteria for parallel and perpendicular lines and use them to solve geometric problems.	(Optional if additional evidence is needed) <ul style="list-style-type: none"> IM Geometry: Unit 6 Lesson 10 Activity 2: Prove Your Parallelogram IM Geometry: Unit 6 Lesson 11 Cool-down: Another Perpendicular Line 	
154.d	Find the point on a directed line segment between two given points that partitions the segment in a given ratio.	<ul style="list-style-type: none"> IM Geometry: Unit 6 Lesson 13 Cool-down: Part Way: Triangle 	
154.e	Use coordinates to compute perimeters of polygons and areas of triangles and rectangles (e.g., using the distance formula).	<ul style="list-style-type: none"> IM Geometry: Unit 6 Modeling Prompt 9: A New Town 	