

M152 Reasoning and Proof through Congruence 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?
152.b	Given a geometric figure and a rotation, reflection, or translation, draw the transformed figure using tools such as graph paper, tracing paper, or geometry software.	<ul style="list-style-type: none">IM Geometry: Unit 2 Lesson 6 Activity 1: Proving the Side-Angle-Side Triangle Congruence Theorem	
152.d	Given two figures, use the definition of congruence in terms of rigid motions to decide if they are congruent.	<ul style="list-style-type: none">IM Geometry: Unit 2 Lesson 2 Activity 2: Are These Congruent?	
152.e	Use the definition of congruence in terms of rigid motions to show that two triangles are congruent if and only if corresponding pairs of sides and corresponding pairs of angles are congruent.	<ul style="list-style-type: none">IM Geometry: Unit 2 Lesson 2 Activity 1: Which Triangles Are Congruent?	

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?
152.a	Use definitions of rotations, reflections, and translations in terms of angles, circles, perpendicular lines, parallel lines, and line segments.	<ul style="list-style-type: none"> None 	
152.b	Given a geometric figure and a rotation, reflection, or translation, draw the transformed figure using tools such as graph paper, tracing paper, or geometry software.	(Optional if additional evidence is needed) <ul style="list-style-type: none"> IM Geometry: Unit 2 Lesson 1 Activity 2: Making Quadrilaterals 	
152.c	Specify a sequence of transformations that will carry a given figure onto another.	<ul style="list-style-type: none"> IM Geometry: Unit 2 Lesson 1 Activity 1: If We Know This, Then We Know That... 	
152.d	Given two figures, use the definition of congruence in terms of rigid motions to decide if they are congruent.	(Optional if additional evidence is needed) <ul style="list-style-type: none"> IM Geometry: Unit 2 Lesson 2 Activity 2: Are These Congruent? IM Geometry: Unit 2 Lesson 2 Warm-up: Which Are Congruent? 	

	I Can Statements	Select at least one from each set	Student Reflection: What new learning does the task showcase?
		<ul style="list-style-type: none"> IM Geometry: Unit 2 Lesson 5 Activity 2: Zig Then Zag 	
152.e	Use the definition of congruence in terms of rigid motions to show that two triangles are congruent if and only if corresponding pairs of sides and corresponding pairs of angles are congruent.	(Optional if additional evidence is needed) <ul style="list-style-type: none"> IM Geometry: Unit 2 Lesson 2 Activity 1: Which Triangles Are Congruent? IM Geometry: Unit 2 Lesson 1 Cool-down: Making Angle Bisectors IM Geometry: Unit 2 Lesson 1 Practice: Problem 2 	
152.f	Explain how the criteria for triangle congruence (ASA, SAS, and SSS) follow from the definition of congruence in terms of rigid motions.	<ul style="list-style-type: none"> IM Geometry: Unit 2 Lesson 9 Cool-down: Practice Seeing Shortcuts IM Geometry: Unit 2 Lesson 6 Activity 2: What Do We Know For Sure About Isosceles Triangles? IM Geometry: Unit 2 Lesson 7 Activity 3: What Do We Know For Sure About Parallelograms? 	
152.g	Prove theorems about lines and angles.	<ul style="list-style-type: none"> IM Geometry: Unit 2 Lesson 8 Activity 2: Not Too Close, Not Too Far 	
152.h	Prove theorems about triangles.	<ul style="list-style-type: none"> IM Geometry: Unit 2 Lesson 6 Warm-up: Information Overload? IM Geometry: Unit 2 Lesson 9 Activity 2: What Else Do We Know For Sure About Parallelograms? 	
152.i	Prove theorems about parallelograms.	<ul style="list-style-type: none"> IM Geometry: Unit 2 Lesson 12 Cool-down: A Proof In Time Saves Nine 	
152.j	Make formal geometric constructions	<ul style="list-style-type: none"> None 	

	I Can Statements	Select at least one from each set	Student Reflection: What new learning does the task showcase?
	with a variety of tools and methods (compass and straightedge, string, reflective devices, paper folding, dynamic geometric software, etc.).		