

M112 Modeling with Data- Two-Variable Measurement Data 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?
112.a	Engage in the modeling cycle.	<ul style="list-style-type: none"> XQ Math Badging Performance Assessment: M112 The Price of Technology—Then and Now OR IM Algebra I: Unit 3 Modeling Prompt 4: Display Your Data 	
112.d	Informally fit a straight line for scatter plots that suggest a linear association.	<ul style="list-style-type: none"> IM Algebra I: Unit 3 Lesson 5 Activity 2: Fitting Lines with Technology 	
112.e	Fit a linear, quadratic, or exponential function to two-variable measurement data.	<ul style="list-style-type: none"> IM Algebra I: Unit 3 Lesson 7 Practice: Problem 4 	
112.f	Use functions that have been fitted to two-variable measurement data to answer questions about the	<ul style="list-style-type: none"> IM Algebra I: Unit 3 Lesson 4 Activity 2: Food Markup 	

	relationship being modeled.		
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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?
112.b	Use scatter plots to represent two-variable measurement data.	<ul style="list-style-type: none"> IM Algebra I: Unit 3 Lesson 4 Activity 1: Orange You Glad that We Are Boxing Fruit IM Algebra I: Unit 3 Lesson 4 Practice: Problem 1 IM Algebra I: Unit 3 Lesson 5 Practice: Problem 6 	
112.c	Describe visible patterns between two data sets in a scatter plot.	<ul style="list-style-type: none"> IM Algebra I: Unit 3 Lesson 8 Warm Up: Putting the Numbers in Context IM Algebra I: Unit 3 Lesson 8 Activity 2: Correlation Zoo IM Algebra I: Unit 3 Lesson 9 Activity 1: Cause or Effect? 	
112.d	Informally fit a straight line for scatter plots that suggest a linear association.	(Optional if additional evidence is needed) <ul style="list-style-type: none"> IM Algebra I: Unit 3 Lesson 5 Practice: Problem 1 	

	I Can Statements	Select at least one from each set	Student Reflection: What new learning does the task showcase?
112.e	Fit a linear, quadratic, or exponential function to two-variable measurement data.	(Optional if additional evidence is needed) <ul style="list-style-type: none"> IM Algebra I: Unit 3 Lesson 6 Practice: Problem 5 IM Algebra I: Unit 3 Lesson 7 Activity 1: Card Sort: Scatter Plot Fit 	
112.f	Use functions that have been fitted to two-variable measurement data to answer questions about the relationship being modeled.	(Optional if additional evidence is needed) <ul style="list-style-type: none"> IM Algebra I: Unit 3 Lesson 5 Practice: Problem 4 IM Algebra I: Unit 3 Lesson 5 Practice: Problem 5 	
112.g	Assess the fit of a function using the correlation coefficient, residuals, and other tools.	<ul style="list-style-type: none"> IM Algebra I: Unit 3 Lesson 7 Cool-down: What is a Correlation Coefficient? IM Algebra I: Unit 3 Lesson 6 Cool-down: Deciding from Residuals IM Algebra I: Unit 3 Lesson 6 Activity 1: Oranges Return 	
112.h	Explain insights gained from analyzing two-variable measurement data and limitations of curves fitted to data.	<ul style="list-style-type: none"> Any tasks can be used but suggest using at least one from 112.a 	