Names: _____ Date _____ Pd: __

Foot Length and Height -Algebra Graphing Project

BELLWORK

Is there a correlation between your height and the length of your foot?

I Working with your assigned partner, you are to measure your height and the length of your foot in centimeters.

Partner #1 height _____ Partner #1 foot _____

Partner #2 height _____ Partner #2 foot _____

II Record your results on the class chart then enter the information on the table below.

Height (cm)	Foot (cm)		Height (cm)	Foot (cm)

III On your graph paper, you first need to create an X and Y axis. You also need to decide on intervals. This is completely up to you and your partner. However, all data must fit on your graph.

- Your graph should start at the origin
- X axis will represent foot length (must be labeled)
- Y axis will represent height (must be labeled)

IV For this project, you will use a scatter plot.

- Be sure to use all of the information from the class chart.

V Write the line of best fit (This is an equation):

_____

VI Answer the following question with your partner.

Is there a correlation between your height and the length of your foot? Explain. Be specific using information gathered in this project (for example, mention a particular person(s) height and foot length).

_____

_____

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VII Make your results presentable.

- Paste your graph on a piece of construction paper
- Create a title
- Brief summary of what you and your partner did
- Paste your line of best-fit equation on the construction paper
- Paste the question and your response to part VI

VII Now, create your graph on Desmos.

- You must show this to Mr. Poff to receive credit for this part.

	Points Possible	Points Earned
Height and foot measured	5	
Scatter Plot created	5	
Title is created	10	
Labeled X and Y axis correctly	15	
Graph is correct; glued to construction paper	10	
Line of best fit is calculated; glued to construction paper	15	
Summary of what the project was about and how it was completed	10	
Answer to the question	20	
Desmos graph was correct and shown to Mr. Poff	10	
Total Points Possible	100	