

Name: _____

Period: _____

Cutting Corners



Essential Question: What size cut will maximize the volume of a rectangular prism?

1. Make a conjecture:

I think the _____ cut will maximize the volume of the box because ...

I think the _____ model will fit the data we gather best because ...

2. Consider the data collected by our class.

	
I notice ...	I wonder ...

- What is the maximum volume found?
- What are the dimensions of the rectangular prism with the maximum volume?

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3. Revisit and revise your conjecture: Did your conjecture change? Why?

I think the _____ cut will maximize the volume of the box because ...

I think the _____ model will fit the data we gather best because ...

4. Grab a computer:

- a. Log in to Desmos.
- b. Create a scatterplot and PAUSE to discuss the following:

What type of function could we use to model the data?

Resource Manager: Call over Ms. Burke to share your group's thinking and to get instructions for the next steps.

5. Revisit and revise your conjecture: Revisit your conjecture with partner before writing. Was it accurate? How would you change it based on what you know now?