Name(s) Period Date

Activity Guide - Spaghetti Bridge



Goal

Build a bridge that holds the most possible books, using spaghetti. You will build two bridges and will try to improve your design between the first and the second.

Rules

- You may only use the spaghetti and the glue that your teacher gives you.
- The bridge must cross a one foot (or 30 cm) gap.
- You may not touch or adjust your bridge once the books are on it.
- You must add books one at a time

Develop a Plan

What kind of bridge does your group plan to make? Write a description or draw a picture below.

• What are the strengths of this design? What possible weaknesses might this design have?

Test Your Bridge

- How many books did your bridge hold?
- Why did your bridge eventually break? What needs to be improved?

Evaluate and Improve

- What are the most common kinds of problems you see among the bridges tested?
- What ideas seem to be working well?

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	Op a Plan What kind of bridge does your group plan to make? Write a description or draw a picture below.
• \	What are the strengths of this design? What possible weaknesses might this design have?
	our Bridge How many books did your group's new design hold?
• \	Why did your bridge eventually break? What needs to be improved?
Reflec • I	t How did working in a team make this activity easier?
•	How did it make the activity more challenging?
• \	What helped your group overcome these challenges?