

Bridge The Gap



Engineer's name: _____

Date: _____

Engineer's Notebook

Challenge: Design and build a bridge that can hold 200 grams using 20 wooden sticks, 12 coffee stirrers, 1 meter of string and 1 meter of masking tape.

Plan your design: Discuss the alternative designs and make a decision on what would work best. Label and list materials. Restriction: your bridge cannot touch the containers.



Test your design and improve it:

Trial #	How much weight did your design hold?	What would you do different next time?
1		
2		
3		
4		

Reflection about your design: What did you learn?

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Plan your design by drawing a sketch of your bridge in the space provided below.



Elevation (Side) View



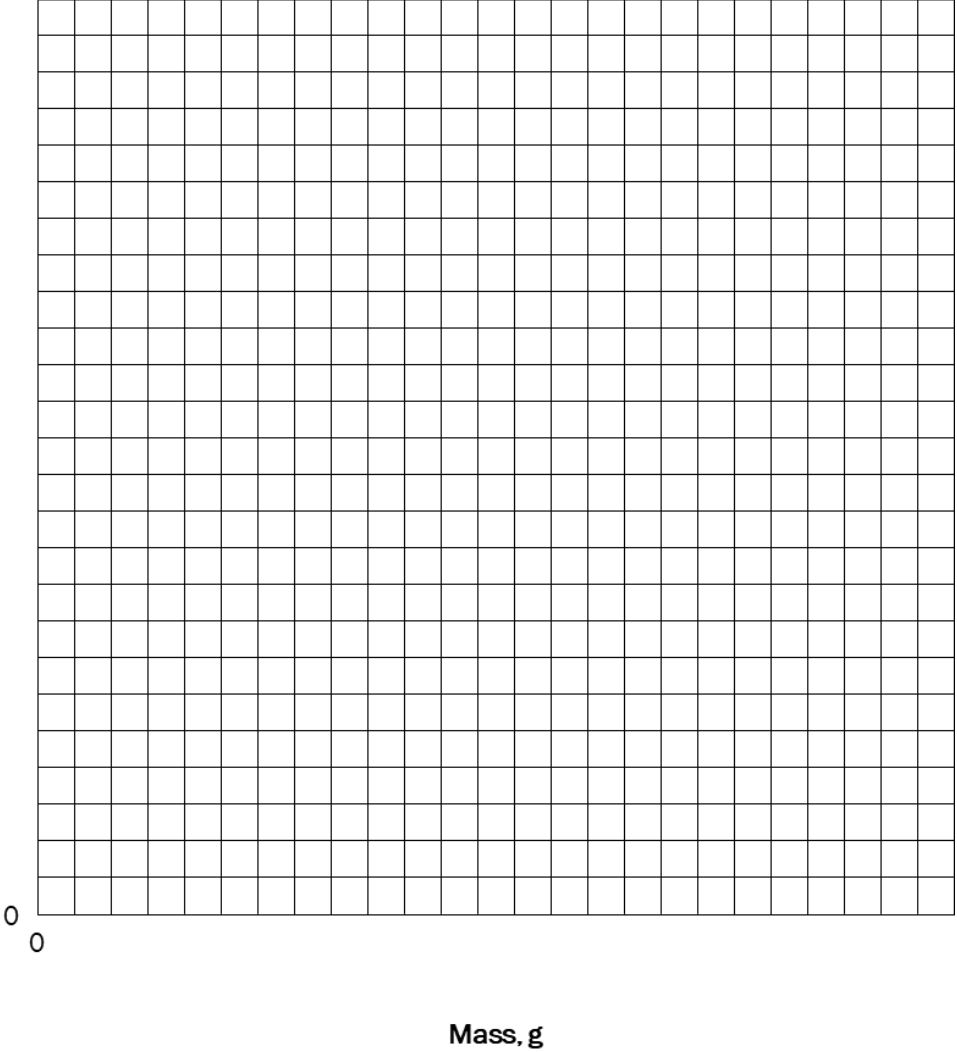
Plan (Top) View

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Data Table 1

Load [g]	Clearance [mm]	Deflection [mm]
0		0

Deflection, mm



Graph 1: Bridge deflection curve