

Name(s):

Date:

(start here)

**DESIGN**

**DESIGN**

**ASK**

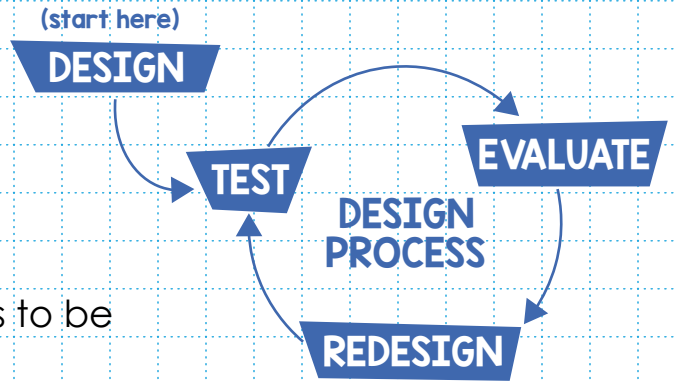
What is the problem (what needs to be solved/improved)?

**IMAGINE**

Sketch and describe possible solutions (different ideas that might solve the problem). Use extra paper, if needed.

**PLAN**

Choose the best solution. Circle it. Why do you think it is best?



## TEST

Build and test your bridge! Record your observations and data.

### Weight

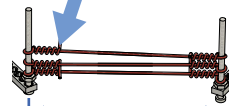
WEIGHT SUPPORTED	
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## EVALUATE

Did it work? What are its strengths/weaknesses? Is it economical?

### Part Costs

PART	QTY.	UNIT COST	PART SUBTOTALS
Full Strips		\$15.00 ea.	
Half Strips		\$5.00 ea.	
Screws		\$2.00 ea.	
Wire		\$0.10/cm	
<b>TOTAL COST</b>			



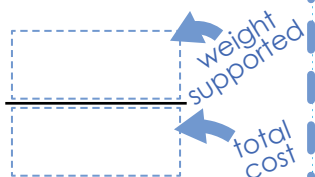
Counts as

10cm x 3 = 30cm

How efficient is your bridge?

### Efficiency

EFFICIENCY =



EFFICIENCY =

## REDESIGN

Did you solve the problem?

**Yes?** Great! Identify a new problem (a way to make your design even better).

**No?** That's OK. What did you learn that can help you solve it in a new or different way?

There is no perfect design (yep... your design can still be improved). Make it stronger, cheaper, better looking, etc.