SAVE MAMA SPIDER'S EGG

Engineering Challenge: Mama spider is dropping her eggs. Your challenge is to engineer a "spider web" to catch her eggs without breaking the egg. The egg must be free-falling with nothing attached to it.

Supplies: Each group (2-3 students) will get one plastic container and 3 meters of webbing. You may buy additional items if you choose.

Budget: YOU HAVE \$25

Material	Cost (\$)	Quantity	Cost x Quantity
Masking Tape	\$5 for 1 meter		
Cotton ball	\$2 each		
Straw	\$3 each		
Pipe Cleaner	\$4 each		
Rubber band	\$4 each		
Paper	\$6 per sheet		
Newspaper	\$10 per sheet		
Tissue Paper	\$10 per sheet		
Balloon	\$10 per sheet		
	,	Total Cost =	,

Imagine: Brainstorm several ideas you have for how to b	uild your web. Draw pictures of 2 different web designs.
Design: Draw a simple design of your final web.	
Build: Build your web.	
Test : Test your web by placing it below the chute. You will drop your egg down the chute and see if the spider web catches it without breaking.	
Data: Was your web successful?	
Analysis : After observing how your web caught the egg, explain why it was successful & why it was NOT.	
Successful	
Not successful	

YFDEO: SPIDERS

1.	What do spiders eat?	
2.	What are spider webs made of?	
3.	Are spiders insects?	
4.	How many legs does a spider have?	
5.	What phase of matter is a spider's silk before it hits the air?	
6.	What metal is a spider's silk stronger than?	
7.	How many body parts do spiders have? How many body parts do insects have?	
8.	You catch spiders in a net.	
9.	What is an exuviae?	
10.	Describe the process of a spider eating	
11.	. How many spider species are there in the world?	
12. How are spiders like rock climbers?		
13.	Are daddy long legs spiders?	
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