

STEAM Activity - Matzah Challenge

Objective:

Students will design packaging for a single piece of matzah sent through the US Postal Service.

Class 1 -

Present problem: The matzah boxes arrived with broken pieces to your seder. You need to send one piece of matzah via the US Postal Service to arrive at your seder on time and unbroken.

Challenge: Design and budget for packaging for your matzah.

Things to consider - Size, shape, weight, edible

* Students must budget for postage as well as materials

Class 2 -

Prototype design: Build packaging for their piece of matzah.

Weigh packaging for postage costs

Class 3 -

Test Designs: Students will put boxes through "postal experience" - rained on, dropped, pushed through mail slot etc.

Evaluate Designs: Students will open packages and judges will evaluate whether or not the piece of matzah still is kosher for use in the seder.

Task: Design packaging for one piece of matzah to go through the mail

Ask: What do we need to consider while designing our packaging?

Imagine: What do we need to consider while designing our packaging?

Plan: What do we need to consider while designing our packaging?

Create: What do we need to consider while designing our packaging?

Improve: What do we need to consider while designing our packaging?

Share: What do we need to consider while designing our packaging?

Materials Request Form - Matzah Challenge

Budget = \$20

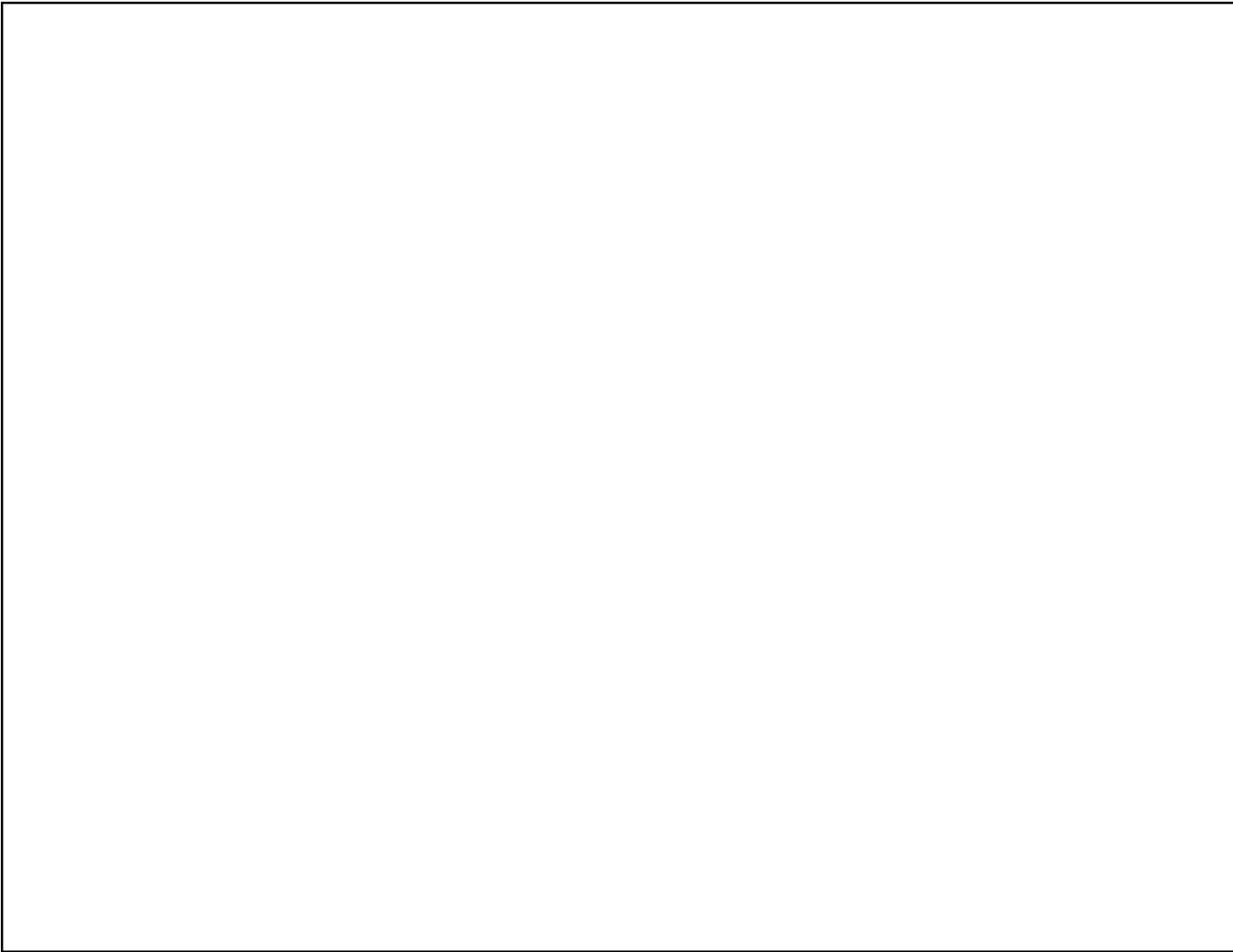
Free Tools: Scissors, Tape, Glue

Material	Amount	# Requested	Price	Total
Cardstock	1 sheet		\$2	
Cardboard	1 piece		\$5	
Construction Paper	1 sheet		\$1	
Tissue Paper	1 sheet		\$2	
Ziploc Bag	1 large bag		\$5	
Bubble Wrap	1 8.5x11 piece		\$10	
Plastic Wrap	1 8.5x11 piece		\$1	
Aluminum Foil	1 8.5x11 piece		\$2	
Cotton Balls	10		\$5	
Paper Towel Tube	1 Tube		\$5	
Toilet Paper Tube	1 Tube		\$2	
Felt	1 8.5x11 piece		\$5	
Paper Plate	1		\$2	
			Grand Total -	

Postage Fees

Weight	Cost
Less than 1 pound	\$1
More than 1 pound	\$3

Sketch your Prototype: Label Materials



Explain: Why do you think your design will be successful?
