



PRINGLES RING CHALLENGE

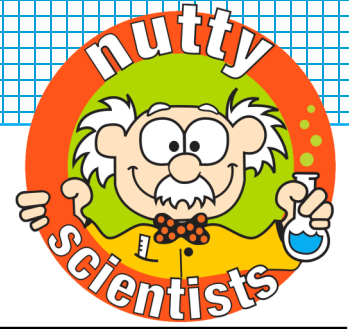
As the title gives away, this lesson is about doing the Pringles Challenge. Your goal for this activity is to create a ring of pringles (think Ferris wheel but, with potatoes!) without using any other materials. No, you cannot use the container (save it for a different project!) BUT you *can* use your patience, science knowledge, and creativity. Think about the questions below to get started and keep track of your design ideas in this worksheet.

- How will the base of your ring be able to support the top?
- Will you layer your chips in a certain pattern? If so, what pattern?
- What other strategies will you try if your first design doesn't work as planned?

IDEA #1	IDEA #2	IDEA #3
<u>Predicted # of Pringles?</u>	<u>Predicted # of Pringles?</u>	<u>Predicted # of Pringles?</u>
<u>Example Drawing/Pattern Used</u>	<u>Example Drawing/Pattern Used</u>	<u>Example Drawing/Pattern Used</u>

FINAL OUTCOME

<u>About how many pringles did you end up using?</u>	<u>Drawing/Pattern Used</u>
<u>What was the trickiest part of this challenge?</u>	

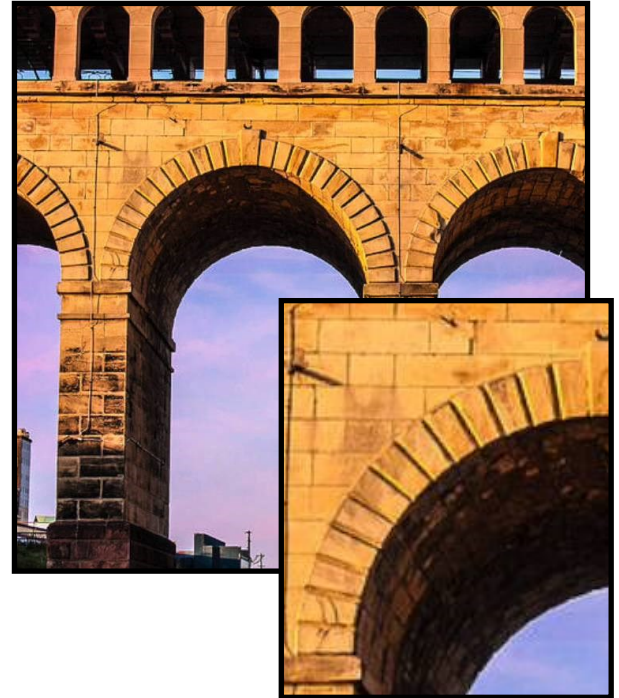


BONUS: ROMAN ARCHES

Goal: Build a free standing Roman Arch using trapezoidal blocks.

Materials:

- 7 Trapezoidal block templates provided in your kit (make your own with cardstock or an old cereal box if you want to try again!)
- Glue or Tape
- Weights (coins, rocks, eraser, etc.)

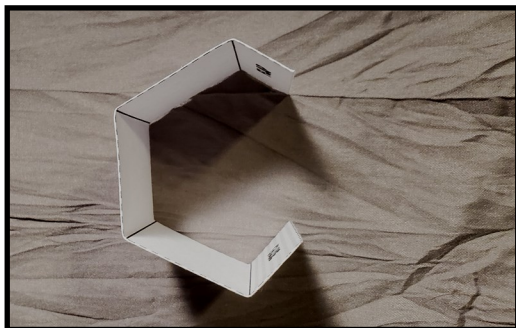


INSTRUCTIONS:

1. If creating your own, cut out 7 block templates



2. Fold the templates along the solid lines



3. Glue the flaps to form your blocks



4. Using weights to keep the end blocks from moving, try to build up an arch!

- Hard to believe but, you do not need any glue
- The “Keystone”, or middle block, is the most important. The arch will fall without it
- Having trouble? Ask a buddy for help

Nutty Scientists of South-East Michigan

