

MATERIALS:

9 Craft Sticks 1 Plastic Spoon 6 Rubber Bands 2 Pom Poms

VOCABULARY:

Catapult	Force	Gravity	Motion
Energy	Potential Energy	Kinetic Energy	Inertia
Drag	Mass	Weight	Acceleration
Newton's Laws			

DIRECTIONS:

STEP 1:



Gather Your Supplies.

STEP 3:



Stack the other 7 sticks and wrap rubber bands a round both ends.





Stack 2 sticks. Wrap 1 Rubber Band around one end of both sticks.

STEP 4:



Slide the stack of 7 sticks in between the stacked 2 sticks at a perpendicular angle like the picture





STEP 6:



Lay a spoon on top of your catapult. Tuck the end under your rubber band X To hold it in place and use your last rubber Band to secure it to the catapult like the Picture shows.

MAKE IT AWESOME:

Try getting the pom poms in a basket or to hit a target!

WEBSITES AND VIDEO LINKS:

1. Newton's Laws Explained in a Video: https://youtu.be/mn34mnnDnKU

STEP 5:

Connect the perpendicular formation using 2 rubber bands. Cross one rubber band over the left side like the picture. Repeat for the right side. You will end up with an X formation over the middle.

STEP 7:



Lay the pom pom on the spoon. Hold the catapult in place by placing your finger over the end of the catapult and pull the spoon back with one finger to hold it in place and use your last rubber from your other hand. Release the spoon (but not the other end of the catapult) and watch your pom pom fly.

EXTENSIONS:

- 1. What happens when you change how hard you pull back on the catapult?
- 2. What happens if you change the size of the pom pom?
- 3. What happens when you change the amount of craft sticks used?
- 4. What other changes can you come up with for this experiment?

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