



# Candy Catapult Challenge

## Challenge details:

1) Create a candy catapult using whatever materials you like

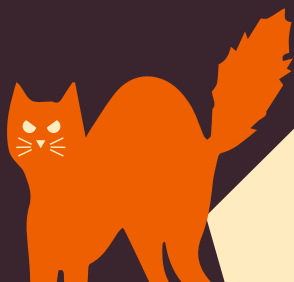
- Materials in demo video: 6 rubber bands, a ruler, a mug, and a tin can

2) Take a photo or film a video showing us your catapult

- Optional: Include your catapult in action by showing us a trick shot!

3) Share to Google Drives folder:

[bit.ly/stemcatapult](https://bit.ly/stemcatapult)



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## -- SCIENCE BEHIND IT --



How does **physics** and **materials science** affect the design of your catapult?

**Think and experiment like an engineer:**

- 1) Does changing the length of the catapult arm affect the aim? Can the candy go farther with a long or short arm?
- 2) Does changing the angle of the arm at rest affect the aim? If the arm is completely vertical or horizontal, what happens?
- 3) Does changing the material of the catapult arm affect the aim? Does the stiffness of the material matter?



Make sure to challenge your friends and share your photos/videos with us!

Be creative and let your inner engineer out!

