

CATAPULT CHALLENGE

5th Grade S.T.E.M. - Due November 19th, 2018

You need to move some materials from one place to another with the help of a simple machine. Keeping what you know about force and motion in mind, your challenge is to design the catapult that will move your materials the furthest with the most accuracy.

Safety concern: Always announce a launch with “Launching!”.
NEVER aim your projectile towards a person, window, piece of technology.

Materials: (You may propose others, but NO popsicle sticks)

- 20 Pencils
- 1 Plastic spoon
- Rubber bands
- Ping pong ball

WORKSHEET

Name: _____

What one material do you think made the biggest difference in creating a successful catapult? Explain why you chose that one.

What forces were used to move the projectile-pushes or pulls? Explain your answer by giving examples using your catapult design.

What happens to the projectile if no force is applied? Why?

What would you do differently next time and why?
