



Ballistic Challenge



The Challenge

- Work in teams
- Make a device to launch a squash ball
- It must be able to be *calibrated (adjusted for accuracy)*



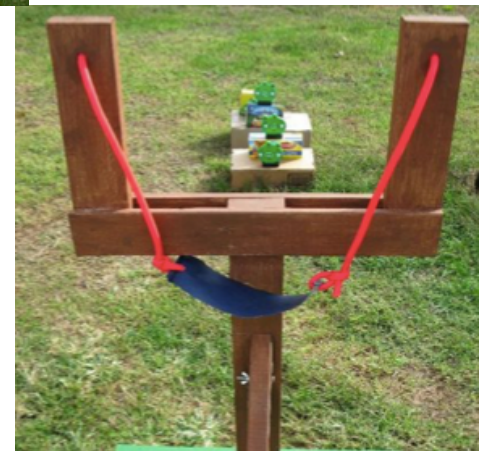
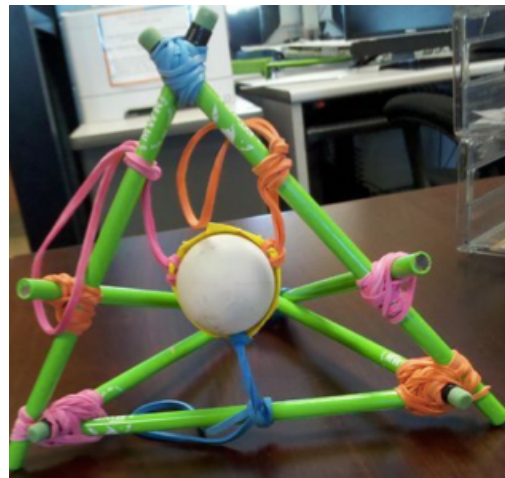
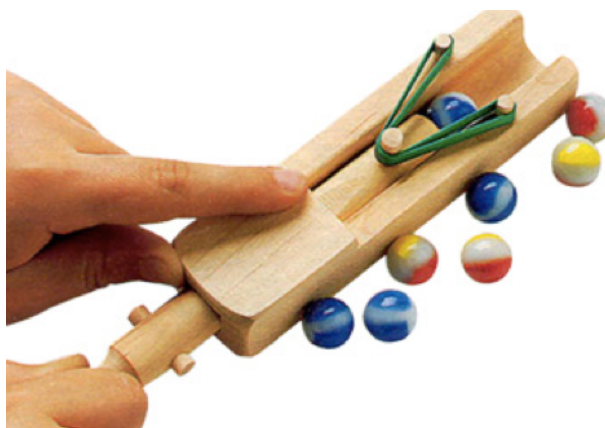
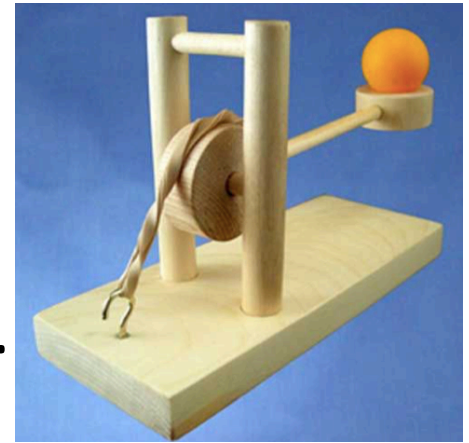
Teams will compete on a STEM competition day Thursday Nov 24th. Prizes will be awarded for:

- **Most accurate (hit a specific target)**
- **Furthest distance**
- **Furthest distance with Barbie**



Ideas board:

Individually sketch **three** possible designs for your launcher now. Consider calibration and materials in your design.



Calibration example



Can you spot how this group calibrated their launcher?

This group used a protractor to determine the best angle to launch the ball. By running a few tests they could then predict where the ball was going to land.

Task: In your groups decide on the best design

Choose a final design that:

- Can be calibrated
- Has easily available materials



Students with their launchers in 2016

Task: Draw a final finished sketch of your best design

- Be detailed
- Include measurements
- Include materials

