

# OA Fall Innovation Challenge: Recycled Catapult



**Challenge:** Create a catapult to launch a pumpkin the furthest distance.

## Constraints/Criteria:

- You must use recycled materials found in the classroom or from home.
- You must use the force of the catapult to launch a pumpkin (you may not throw the pumpkin!)
- The catapult must be able to stand upright on its own.
- The catapult must make use of a lever arm (no slingshots).

## Procedure:

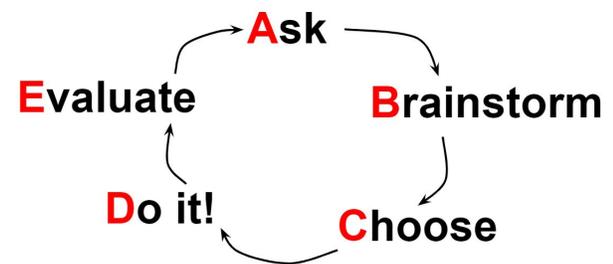
- You should follow the ABCDE design process.
- Do steps **A**, **B** and **C** on the planning sheet.
- Do step **D**. Use recycled materials OR materials found in the classroom to build your catapult.
- Take a video (less than 10 seconds) of your catapult in action.
- Tweet it to @OAupdate
- Do step **E**. Answer the Evaluate questions.

## Rules:

- You **MUST** work with at least one other person.
- Your planning/reflection sheet must be completed to be entered in the contest.
  - Planning should be done *BEFORE* you begin constructing.
- A video (less than 10 seconds) of the final launch must be tweeted @OAupdate or emailed to \_\_\_\_\_

**AWARDS**→ Awards will be given for the **furthest distance** and the **best/most creative design**.

\*The video of the launch **MUST** be tweeted or emailed to qualify for an award.



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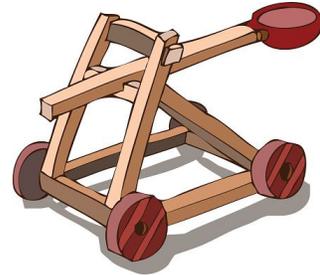
## Recycled Catapult

### Student Planning and Reflection:

Name(s): \_\_\_\_\_

Goal time teacher: \_\_\_\_\_

Grade level: \_\_\_\_\_



**Ask:** How can we use recycled materials to create a catapult to launch a pumpkin the furthest distance.

**Brainstorm:** Research different ideas. Write/draw three different models to test.

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**Choose/check in:** Circle the model you will try first (you can always try again!)

**Do it!**

**Evaluate:**

1. On a scale of 1-5, how successful do you think you were? \_\_\_\_\_
  - a. Why?

