

MAKER CHALLENGE

November 2023 ★ Cedar Falls Schools

Ping Pong Ball Pickup Challenge

This month's challenge is to create a retrieval device that will move a ping pong ball off the floor and put it on top of the desk/table without bending over.

Provided materials to get you started:

- Popsicle sticks
- Plastic spoons
- Plastic cups
- String
- Tape
- Ping Pong Balls
- Anything else from your makerspaces and bring materials from home

What is a Maker Cycle?

<https://www.powtoon.com/c/e080ap3flxE/1/m>

This month's challenge video

<https://youtu.be/hN2t2LYHIPo>

Imagine Generate ideas!

- ☐ Join a team and brainstorm together!

Plan What's your students' plan?

- ☐ Ask-Do you need to conduct research?
 - ☐ How are grabbers constructed and how do they work?
 - ☐ What materials will I need?
- ☐ Have students Sketch, model, describe your project
- ☐ Label parts
- ☐ Include measurements

Create Build your creation!

- ☐ Reflect along the way! What's working? What's not?
- ☐ What kinds of materials are working and what are not?

Celebrate! You've made a device that picks up things! Congratulations!

- ☐ Show off your work to your classmates, describing what you did.

Share Show off your work!



- ☐ Show us your project on Flip.
<https://flip.com/groups/15146441/topics/38876949/responses>
- ☐ Show us how your project works by December 22nd!

