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MAKER CHALLENGE

March/April 2025 ★ Cedar Falls Schools

Zipline Challenge

Please note: Only ONE class will be able to complete this challenge at a time.

Provided materials to get you started:

- Zipline (1.5 meters up off the ground and taped to the floor)
- Legos
- Washers
- String (4 meters long)

This month's challenge is to deliver a package of food/medicine to a vet that's with a hurt animal via zipline. The terrain is too rugged, so the lego zipline is our only hope. Create a carrier out of legos and your teacher will record how much time it takes to get to the bottom of the mountain! We want to be as close to 3 seconds as possible. Teachers take a whole class photo of your classes zipline carriers!

What is a Maker Cycle?

https://www.youtube.com/watch?v=MLQwnjiYTFY&authuser=0

This month's challenge video

https://www.youtube.com/watch?v=eU20fmgZhMA

•	erating ideas! Make a plan for your lego carrier.
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Plan What's	s your plan for the zipline and the carrier?
	What is your carrier going to look like with the Legos?
	How many washers are you going to use in your carrier?
	How are you planning to connect your carrier to the zipline?
٠	How heavy or light do you think your Lego carrier needs to be in order to make it down in as close to 3 seconds as possible?
Teacher Setup: Attach one end of the zipline 1.5 meters up the wall or on a whiteboard with duct tape. Stretch the other end to the floor and tape it down or use books to hold it in place.	
	your zipline carrier Reflect along the way! What's working? What's not?
-	ve How can you make your zipline carrier look better or function better? How can you get your is close to 3 seconds as possible? Teachers- you could record times on the board to see who is
٠	What will give your creation the final touches?
	ou've made a zipline that works! Congratulations! Teachers: Take a picture of your students carriers for the Google Drive. The QR Code is posted below

