

Makerspace- Eyeball/ Dinosaur Catapult

Safety tips: Children must be accompanied by parents for this activity. Parents will need to cut a notch in two of the sticks. Be sure to cover your workspace with paper towels, newspapers, or an old tablecloth.

Items you will need: Materials that you picked up from library, glue and scissors.

Predictions:

Please think of these questions prior to starting. How far will your object fly? What other objects can you use? What ones will fly the farthest? If a sibling is doing this makerspace too, have a contest and predict whose eyeball/dinosaur will fly the farthest.

Makerspace steps:

1- Cover workspace to protect furniture.

2- Stack eight sticks and tie them together tightly on both side with rubber bands. Then take two additional sticks and make two v- notches about an inch from the end, on both ends of each stick. **This is a good step for the parent to do as it involves a tricky notching of the sticks with a scissor. Please watch video before doing this.

3- Slip one of the notched sticks through the stack so that it is the second one from the bottom. See video for clarity on this.

4- Place the other notched stick on top and tie at one end with a rubber band. See video for clarity.

5- Glue the baking cup on the high side of the stick. Leave a little room so that you may place your finger on the catapult.

6- Share your work! Send a picture of your creation and your prediction findings to Ms. Stephanie at scuozzo@eipl.org.

Additional Resources

Books available at our library!!

Gurstelle, William. The Art of the Catapult. J623.4GUR

Ipsen, D.C. Isaac Newton, Reluctant Genius. JB NEWTON IPS.02

Manning, Mick. Science School. J507.8MAN

Tolman, Marvin. Hands-On Physical Science Activities for Grades K-6. TC372.35TOL

VanCleave, Janice. Janice VanCleave's Physics for Every Kid: 101 Easy Experiments in Motion, Heat, Light, Machines, and Sound.

Websites:

Build a Catapult-Design Squad- <https://youtu.be/EFxeVO3AfaA>
PumpkinCatapult-

<https://video.nationalgeographic.com/video/00000144-0a40-d3cb-a96c-7b4d462a0000>