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## COTTON BALL CATAPULT TIP SHEET

This activity kit will be used during the ABTS 2021 Virtual Activity Showcase: Cotton Ball Catapult session on Tuesday, October 26 from 9:00-9:45 AM EST. If you are planning to attend the session, please refer to the instructions noted in this section. If you cannot attend the session, you can find more information about the Cotton Ball Catapult activity, including an activity guide, at [www.stem2d.org](http://www.stem2d.org).

**ABTS 2021 VIRTUAL ACTIVITY SHOWCASE: COTTON BALL CATAPULT**  
**SESSION TIME: TUESDAY, OCTOBER 26. 9-9:45 AM**

Welcome!

I am so happy you will join me for a 45-minute virtual and interactive demonstration of *Cotton Ball Catapult*. Through the demonstration of this hands-on STEM<sup>2</sup>D\* activity, you will gain tips and strategies for how to engage youth, ages 14-18, with this activity virtually and in-person. Cotton Ball Catapult will help us explore product development and testing through engineering practices.

In your *Catapult in a Bag*, you will find the

- 10 cotton balls
- 1 ruler
- 5 popsicle sticks / wooden sticks
- 1 roll masking tape
- 10 rubber bands
- 2 plastic teaspoons
- 2 pipe cleaners
- 6'6" (2 meters) of string




following:

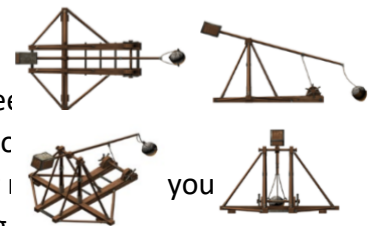


*Activity Challenge (Do not start until the session)*

Design and test a catapult to get the cotton ball to fly as far as possible!

*Pre-Session Preparation*

1. Review the contents of your Catapult in a Bag.
2. Think about how you can use the materials to design a catapult (see ).
3. Create a sketch of your design. You will need it for the virtual session.
4. Think of items around the house you may be able to substitute for items in the kit.
  - a. Write them down. You will share some of your ideas during the session.
5. Bring your excitement and inquisitiveness to the live demonstration.
6. Have fun during the session, ask questions, and share your insights!



STEM<sup>2</sup>D refers to Science, Technology, Engineering, Mathematics, Manufacturing, and Design. The Cotton Ball Catapult activity was created by FHI 360 as part of the Johnson & Johnson Women in STEM<sup>2</sup>D initiative. [www.stem2d.org](http://www.stem2d.org)