

NAME:

GRADE & SECTION:

INSTRUCTOR

DATE:

CATAPULT DESIGN WORKSHEET

Engineer
STEAM



Problem: You are an engineer who specializes in designing cool toys and machines for games. You were recently contacted by the Funtastic Toy Company to help design a machine called a catapult XL for a game that will launch Ping-Pong balls at a series of targets.

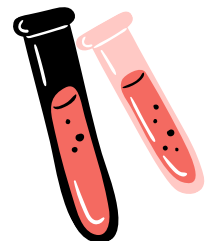
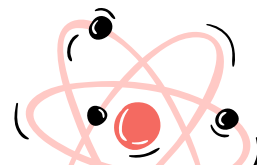
To ensure that children and adults alike will love the game, you need to make sure the catapult is both accurate and precise.

Given: The only building materials available to you are listed below.

Popsicle Sticks
Masking Tap
Straws
Rubber Bands
Plastic Spoons
Cardboard 1 per group

Imagine: Brainstorm several ideas you have for how to use the above materials in your catapult. Draw pictures!

Build: List how much of each material you will need to build your catapult. Once your design and materials list are complete, you may collect materials from your teacher. Make sure you labeled the materials in your design!



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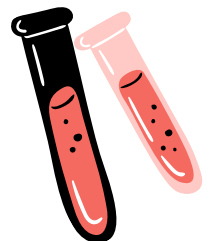
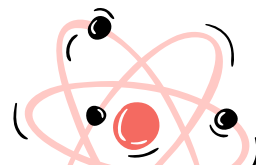
CATAPULT DESIGN WORKSHEET

MEASURE

Material

Distance

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Test: How well did your catapult work? What are two ways you can change your catapult to make it better? List these ideas here, and then start over at the beginning of this sheet.

