

DIY CATAPULT

MAKE CATAPULTS

Follow the instructions to make the catapults and experiment with them.

If you don't have the exact materials, don't worry. You can substitute the materials you do have, be creative and use clothes pegs, hair ties, bottle tops, sticks, pencils etc.

A catapult is a type of lever that launches objects into the sky. Potential energy is quickly stored in the rubber bands and then released as kinetic energy to launch an object across the room.

YOU WILL NEED:

- *DIY CATAPULT* INSTRUCTIONS
- CATAPULT MATERIALS (PER CATAPULT)
 - 1x PLASTIC SPOONS
 - 6x POP STICKS
 - 4x RUBBER BANDS
 - 1x SOFT OBJECT TO LAUNCH (E.G. POMPOM, MARSHMALLOW)
- TAPE
- SCISSORS

DIY CATAPULT

1



2



3



4



5



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EXPERIMENT

Once the catapults are working, start experimenting!

Make sure you measure and record your observations.

COMPARE AND DISCUSS

- How far can you get your object to fly?
- How high can you get your object to fly?
- How does moving the spoon affect the flight of the object?
- Try adjusting the height by adding more popsicle sticks to the centre. What effect does this have on the flight path?
- Compare launching objects with different weights.
- How can you improve on this design?

YOU WILL NEED:

- *TECHNOLOGY TO RECORD MOVIES*
- *PENS*
- *PAPER*
- *MEASURING TAPE OR RULERS*
- *DISCUSSION DOCUMENT*