



# Marshmallow Shooter

Embark on an exciting journey of engineering, forces and precision with the "Marshmallow Shooter" experiment. Work on your aim as you launch marshmallow after marshmallow – challenge your friends to a distance shooting contest! Enjoy this hands-on adventure that explores the science of energy.

## Materials

- 🚀 Disposable cup
- 🚀 Balloon
- 🚀 Scissors
- 🚀 Tape
- 🚀 Mini marshmallows



## Method

- Step 1:** Using scissors carefully cut out the bottom portion of a disposable cup.
- Step 2:** Cut off the tip of a balloon and stretch it over the bottom of the cup. Then tie a knot in the opposite end of the balloon.
- Step 3:** Secure the cut edges of the balloon to the cup with tape.
- Step 4:** Place a mini marshmallow inside the cup and point the opening of the cup away from yourself and others. Then pull the knot back and release it.

## What is happening? The Science explained.

When using your marshmallow shooter, you will be applying two types of energy. As you pull back the balloon you are adding potential energy - the farther it is pulled back the more potential energy is being stored. When you release the balloon, the energy becomes kinetic, and the marshmallow will fly through the air. The further you pull back the balloon, the further the marshmallow should travel.

