

# THE BALLOON ROCKET

**Project:** Build a vehicle, propelled only by a balloon, which travels along a string.

**Goal:** Make the balloon Rocket that travels the farthest.

**Materials:**

- 1 balloon
- 2 big paperclips
- 2 little paperclips
- 4 straws
- 5 popsicle sticks
- 5 rubber bands
- 10" tape
- unlimited cardboard

**Things You and Your Group Should Consider When Building:**

- o The shape of your Balloon Rocket
- o The weight of your Balloon Rocket
- o The direction the Balloon's mouth is facing
- o The shape of the Balloon will change as it is inflated or deflated
- o The friction effect between your Balloon Rocket and the string, which you will learn about in the demonstration

**Questions to Answer:**

How far did your Balloon Rocket go?

What does friction have to do with Balloon Rockets?

How could you improve your Balloon Rocket to make it go farther?