To Do To Go: Kids

Try a new To Do To Go activity each month!

SUPPLIES

- Balloon
- Straw
- String
  (at least 6 feet long)
- Tape

Your community would love to see your creations!

Send a photo of your finished work to *todotogo@sno-isle.org* and we'll share it on Sno-Isle Libraries social media platforms.

1. Tie or tape one end of the string to a chair, doorknob, or other support.
2. Thread the string through the straw.
3. Pull the string tight and tie it to another support in the room.
4. Blow up the balloon and pinch the end to keep the air inside. Do not tie the balloon.
5. Tape the balloon to the straw so that the opening of the balloon is horizontal with the string. The balloon will hang underneath the straw.
6. Pull the balloon all the way back to the end of the string (the starting line). The balloon opening will be against the support.
7. Let go of the balloon and watch it fly!

Find an extra challenge and check out the book list on the back!

Need an extra challenge?

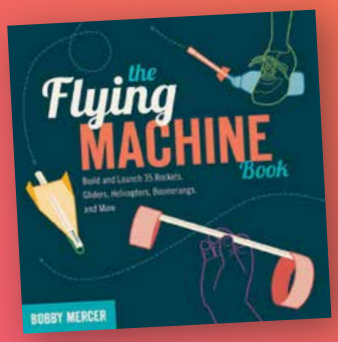
Add "cargo" to your balloon by making a small container out of paper or cereal boxes and attach it to the straw. Place small items inside such as paper clips, bottle caps or candy, and see how far they can go!

How Does It Work?

Newton's Third Law of Motion states that for every action there is an equal and opposite reaction. In this case the air leaving the balloon is the action, and the balloon moving forward is the reaction. Try adding more or less air to the balloon to see if you get a different reaction!

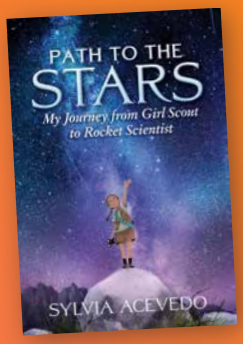
Reading Suggestions

Pick these up at your local library!

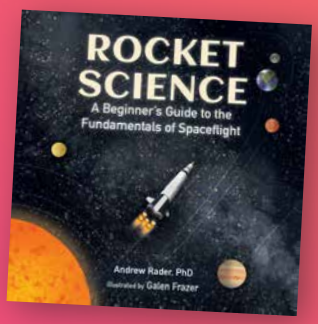


The Flying Machine Book: Build and Launch 35 Rockets, Gliders, Helicopters, Boomerangs and More
by Bobby Mercer

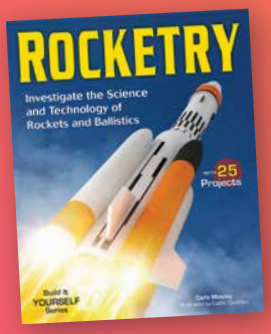
Lucy and the Rocket Dog
by Will Buckingham



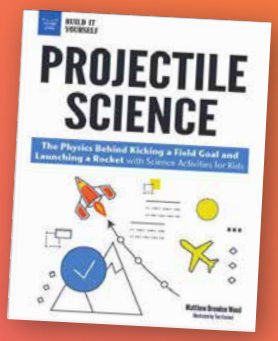
Path to the Stars: My Journey from Girl Scout to Rocket Scientist
by Sylvia Acevedo



Rocket Science: A Beginner's Guide to the Fundamentals of Spaceflight
by Andres Rader



Rocketry: Investigate the Science and Technology of Rockets and Ballistics
by Carla Mooney



Projectile Science: The Physics Behind Kicking a Field Goal and Launching a Rocket
by Matthew Brenden Wood