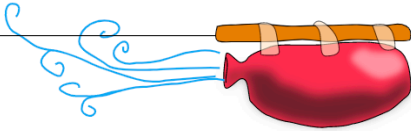
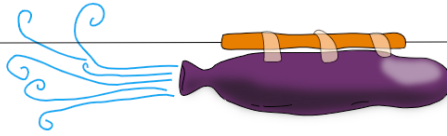


# Balloon rocket racers

Race these rockets with your friends and see how mass affects how far the rocket travels.



## What to do

### What you'll need

- 3 balloons
- Some thin string (thread or floss works best!)
- 3 straws
- Sticky tape
- 3 pegs
- Some coins

The more mass an object has, the more force it needs to move. Rockets going to space are really heavy, so need lots of fuel to escape Earth!

1. Cut three long pieces of string, and thread one piece of string through each straw.
2. Set up the string racing tracks. Tie the string with the straws on them so they're completely flat and roughly the same length. This could be from a chair to a window.
3. Leave one balloon empty, put one coin inside another and put two coins inside the final.
4. Blow up the balloons, being careful with the ones with the coins in. Don't tie them, but twist and peg the ends so the air doesn't come out.
5. Using a few pieces of sticky tape to attach the balloon to the straw.
6. Get two friends to help you. After a countdown, release the pegs and watch the rockets zoom off! Which one went the quickest?