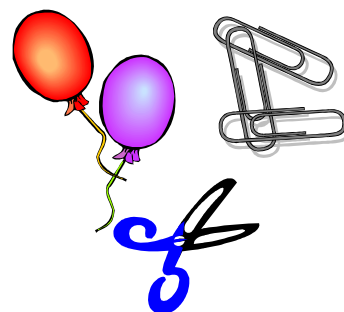
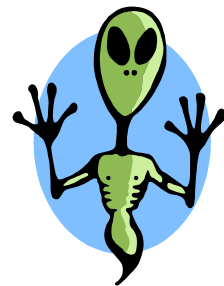
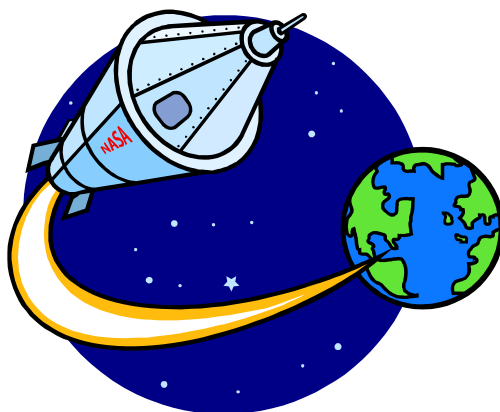


Balloon rockets



Your task

Use the equipment given to make a **BALLOON ROCKET**.

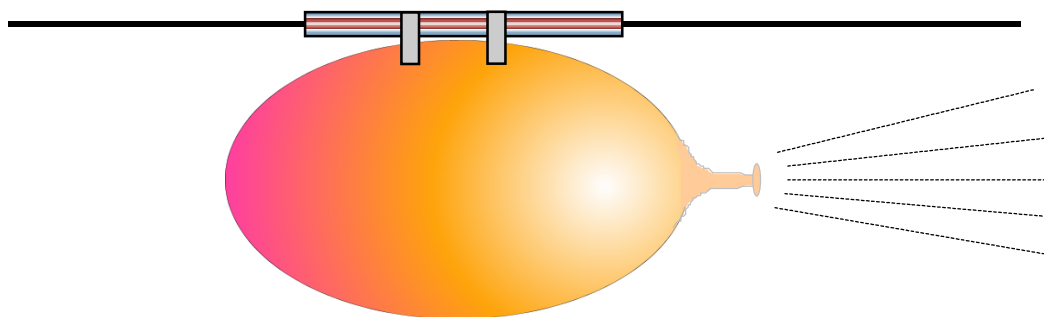
Your rocket should travel **as far as possible** along the string guideline.

Equipment provided

- 1 rocket testing facility (a 2m test string)
- 4 balloons *
- 4 drinking straws *
- 4 paper clips *
- Sellotape *
- Scissors *
- 2 A4 sheets of card

Rules

- 1 Use the starred equipment to make a balloon rocket like the one shown below. Test it on your **ROCKET TESTING FACILITY**.



- 2 Now use the other bits provided, in any way you want, to make the rocket go further.

Judging

The winner is the rocket that travels **the furthest** (however quickly or slowly).

Teacher Guide for Balloon Rockets

Contents:

Activity notes

Technicians' notes

Activity notes

This is easy and fun. The main problem is how to stop the air coming out of the balloon too fast. This is where the drinking straws and paper clips help. The string must be taut, and free of knots. Nearly all groups will burst some balloons in the building and testing stages, so have some extras handy. We usually make it a timed exercise (how long depends on how they are getting along with the problem). Beware of howls of protest when the students remember it doesn't matter how fast it goes, only how far!

Balloon Rockets

Technicians' notes

Per group of students:

4 x balloons
4 x drinking straws
4 x paper clips
1 x roll of Sellotape
1 x pair of scissors
2 x A4 sheets of card
2m of string

In the lab:

Spare string and balloons