

# Balloon Rockets



## THE SCIENCE

The rocket moves by something called thrust. As the air rushes out of the balloon, it creates a forward motion called thrust. Thrust is a pushing force created by energy. The thrust comes from the energy of the balloon forcing the air out. Different sizes and shapes of balloon will create more or less thrust. In a real rocket, thrust is created by the force of burning rocket fuel as it blast's from the rocket's engine – as the engine's blast down, the rocket goes up.

## You will need:

- Balloon (round one's work but the longer one's are best)
- String
- Straw
- Tape
- Clothes peg

1. Tie one end of a piece of string to a chair, door handle etc, or have someone hold the end.
2. Put the other end of the string through a straw and pull the string tight.
3. Inflate the balloon, twist the end and secure it with a clothes peg.
4. Use tape to attach the balloon under the straw.
5. Release the peg to launch your rocket!

Mark on the string with pen where your balloon ends and try to beat it.

Why not set up two and have a race?