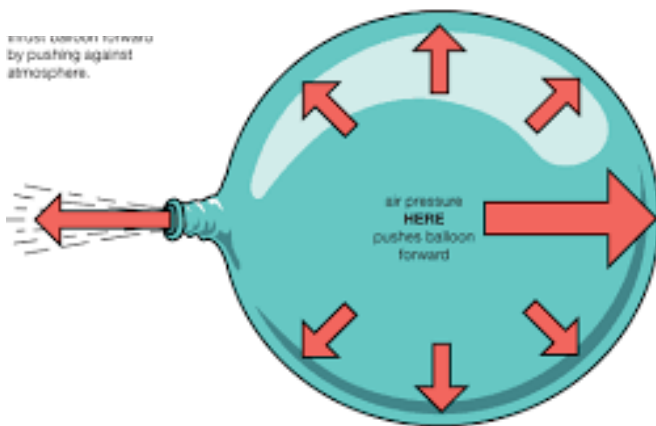


## How do satellites move around in space?

Have you ever blown up a balloon and let it go on purpose?

You know that rude noise it makes as it whizzes round the room?

That is caused by “Propulsion”!



### Fun Fact:

Propulsion means to push forward or to drive and object forward.

At Surrey Satellite Technology Ltd we use Propulsion to move around some of our spacecraft in space. We fill a tube full of gas, just like filling a balloon with air and fit it to the satellite.

Once it's been launched into space using a launch vehicle we send the signal and the satellite lets the gas go, making it move forward.

This means we can move our satellite to the right position above the earth.



## You can create your own propulsion experiment at home with the following supplies:

- 1 x balloon
- 1 x Drinking Straw
- 1 x Piece of String which is 2 meters long.
- Sticky Tape
- 2 x Chairs

### Setting up:

1. Cut a piece of string that's about 2 meters long.
3. Slide the drinking straw onto a piece of string.
4. Tie each end of the string to a chair a pull apart to make the string taut.
5. Place two loops of sticky tape onto the straw.
6. Blow up the balloon to its maximum capacity (greatest volume). Hold tightly onto the neck of the balloon so that no air escapes, and attach the balloon to the two pieces of tape. The neck of the balloon should be parallel to the string.
7. Release the neck to let the air rush out of the balloon, and watch the balloon fly along the string using its Propulsion.
8. You can experiment by blowing the balloon up different sizes to see how far it travels with its propulsion.

