Your Name:

Your Age:

This month's challenge:

Boredom Busters

Inventions to liven up boring times, like waiting & queueing!

Interesting Fact:

In 2010 in Burkina Faso 10,000 people queued to break a record for the world's longest toilet queue!

Tell us about your idea:

The Institution of Engineering and Technology

Institution of MECHANICAL ENGINEERS

Don't forget to give your invention a name!

Draw your invention idea:

The Institution of Engineering and Technology

Institution of MECHANICAL ENGINEERS

rec You can send us a video explaining your idea too!

Invent at Home Boredom Buster:

Paper Aeroplane Launcher

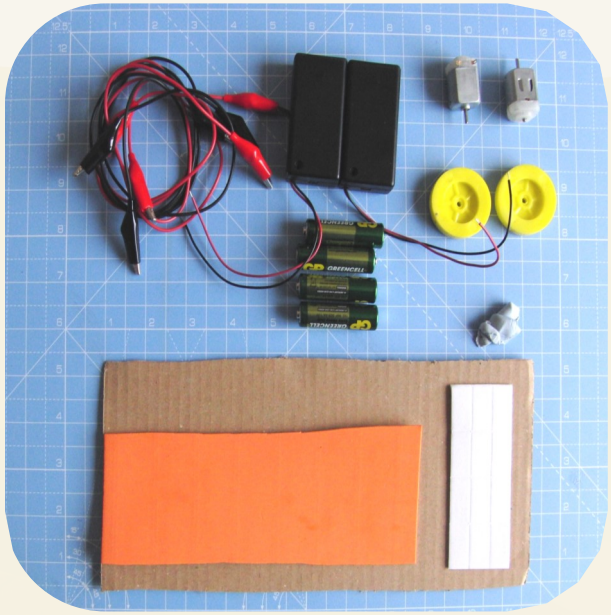
Here's how to create your own paper aeroplane launcher. It's an invention you can use to fly your own paper planes.

This is your project! Try making adjustments and trying new ways of putting it together – because there are many ways to make it work.

Top tip: see what happens when you change the motor direction by swapping the crocodile clips.

Materials:

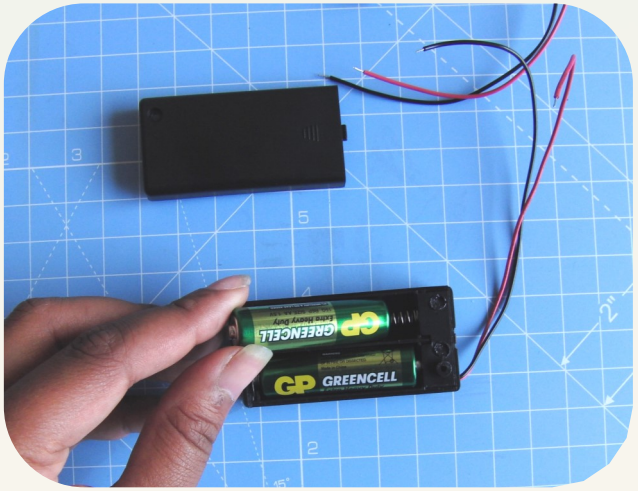
- Cardboard
- 4x Crocodile clips
- 2x Souble AA battery holders
- 4 AA batteries
- 2x 3V electric motors
- Self-adhesive foam
- Double-sided adhesive foam pads
- 2x mini plastic wheels



Tools:

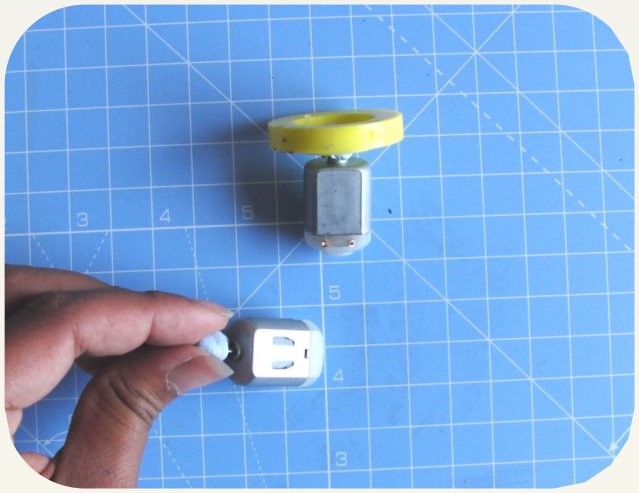
- Paper aeroplanes
- Scissors
- Blu-tack

1.



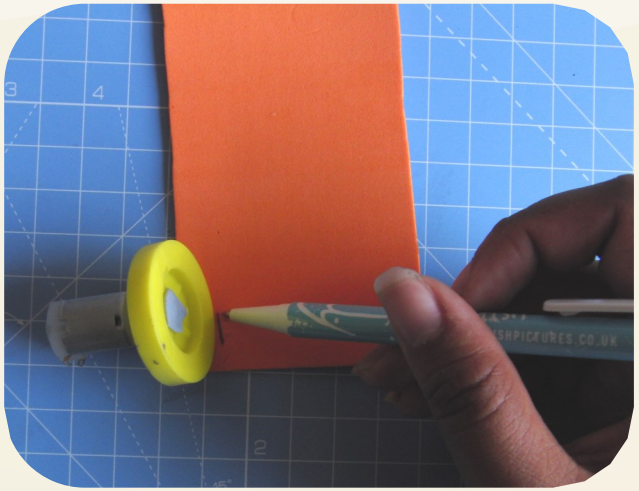
Remove battery pack cover and insert 2x AA batteries. Replace cover.

2.



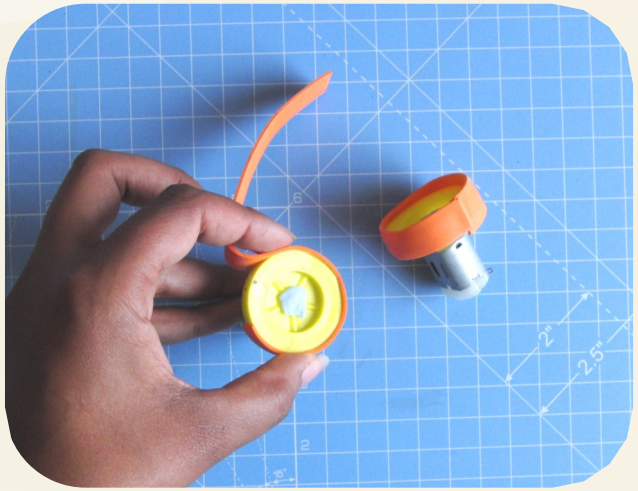
Attach wheel to motor.
Tip: Use Blu-Tack to create a tight fit when attaching the wheel.

3.



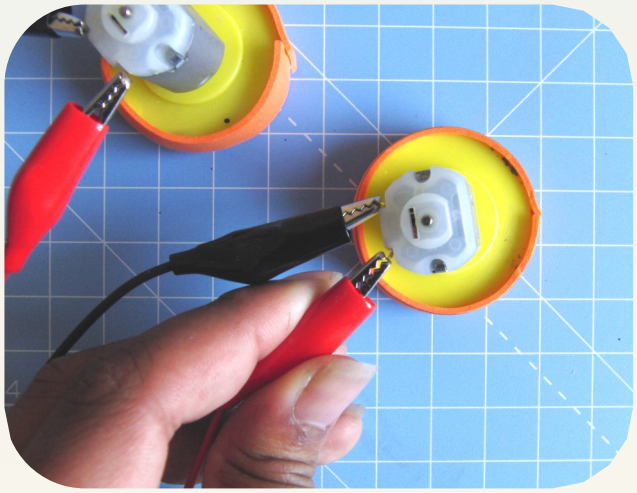
Cut 2 strips of self-adhesive foam to the width of the wheel.

4.



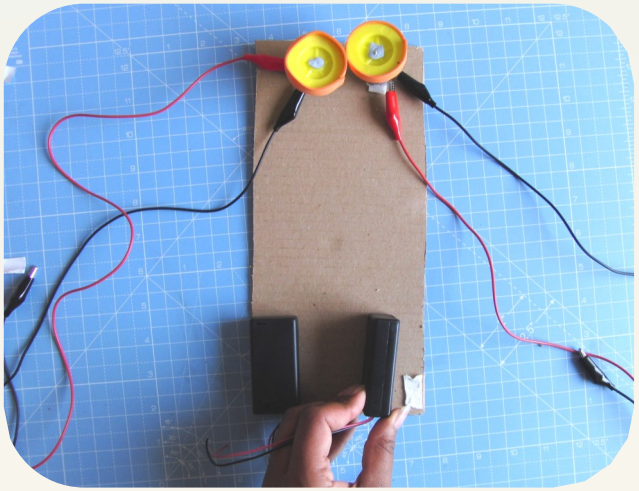
Attach a strip of foam to each wheel.

5.



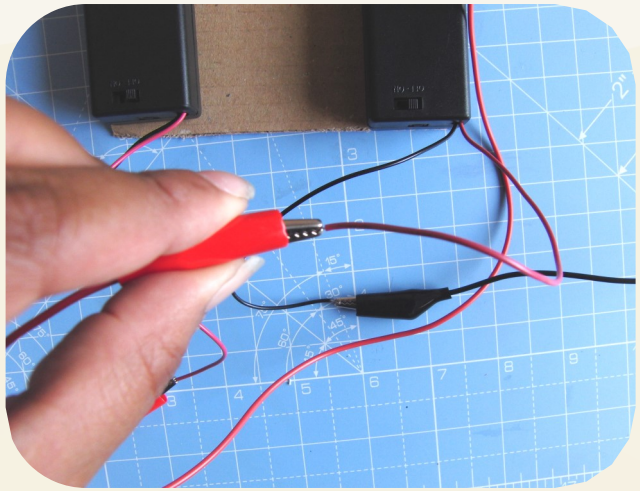
Attach the crocodile clips to the motor's metal connectors.

6.



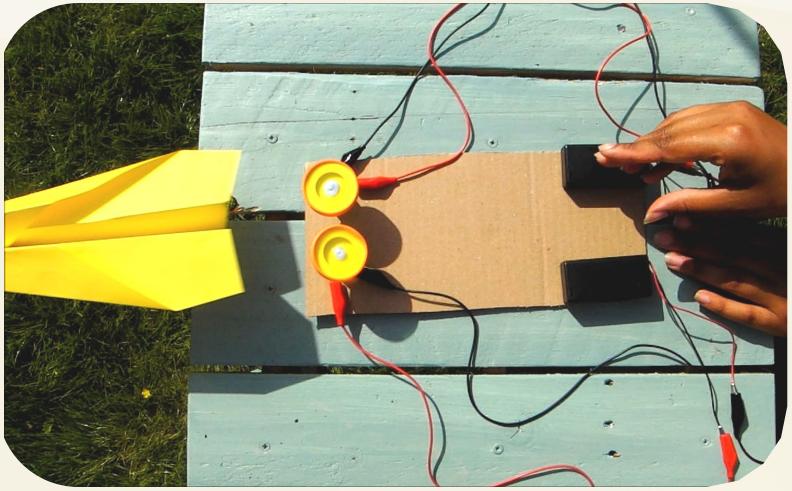
Attach the motors and battery packs to the cardboard using self-adhesive foam pads.

7.



Attach the crocodile clips to the battery packs.

8.



Place the tip of your plane near the rotating motors to test. Then, decorate & PLAY!