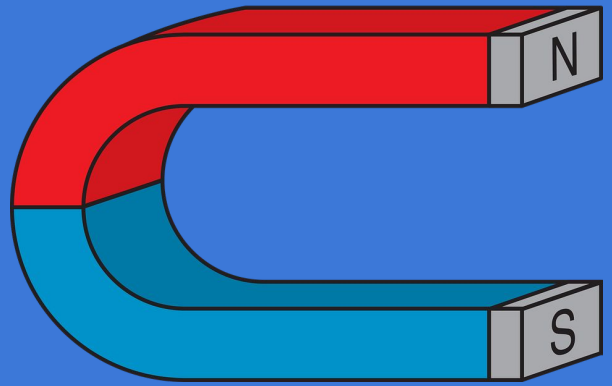
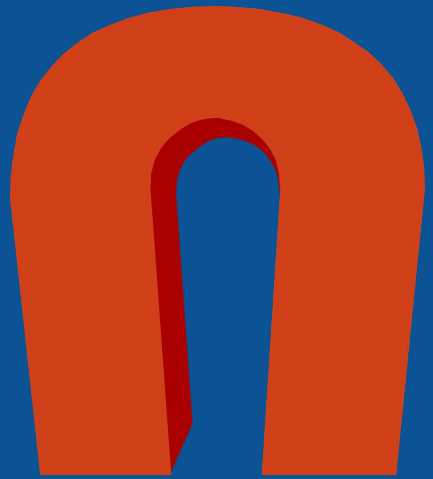
Magnetism

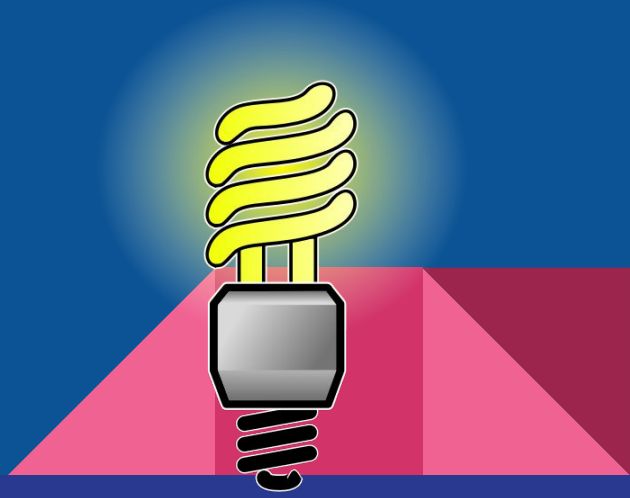
By Ruairi , Conor and Isaac



Introduction

Hello and welcome to our experiment. Today we will be talking about magnetism as you could see by the title we will be taking a look at how to make a magnetic car .



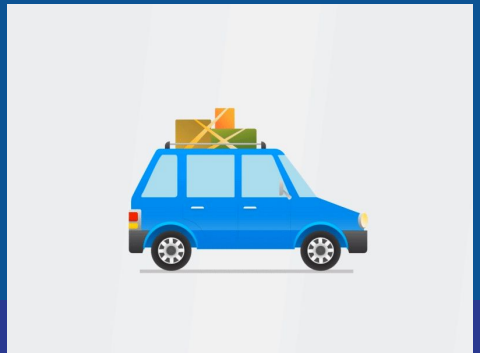


What you will need

- Two magnets 
- An empty match box 
- A straw 
- Two toothpicks 
- Scissors 
- Sellotape 
- A Cork 
- Plasticine or blu tack (Optional) 

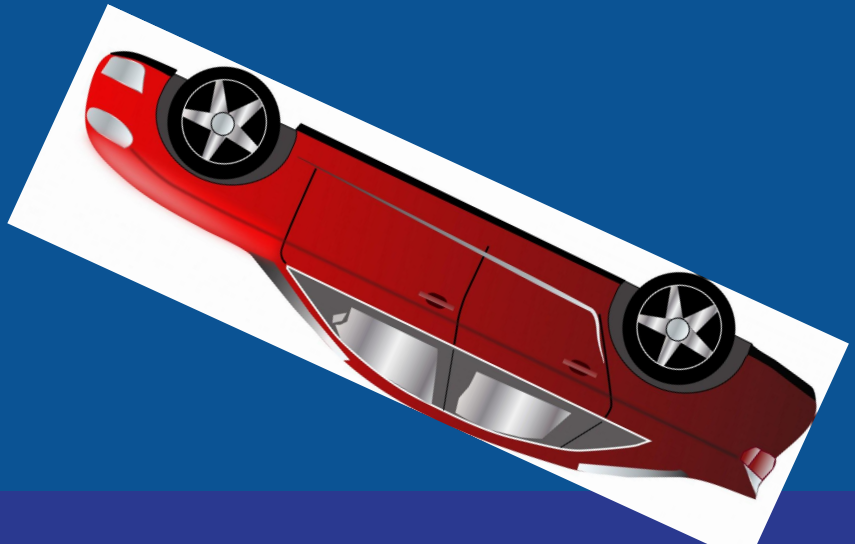
Instructions

1. Cut the cork into 4 pieces (With adult supervision of course)
2. Cut the straw into 2 pieces make sure its the same size
3. Tape the pieces of straw to the underside of the matchbox
4. Push the cocktail sticks through the straw and fix the wheels to them



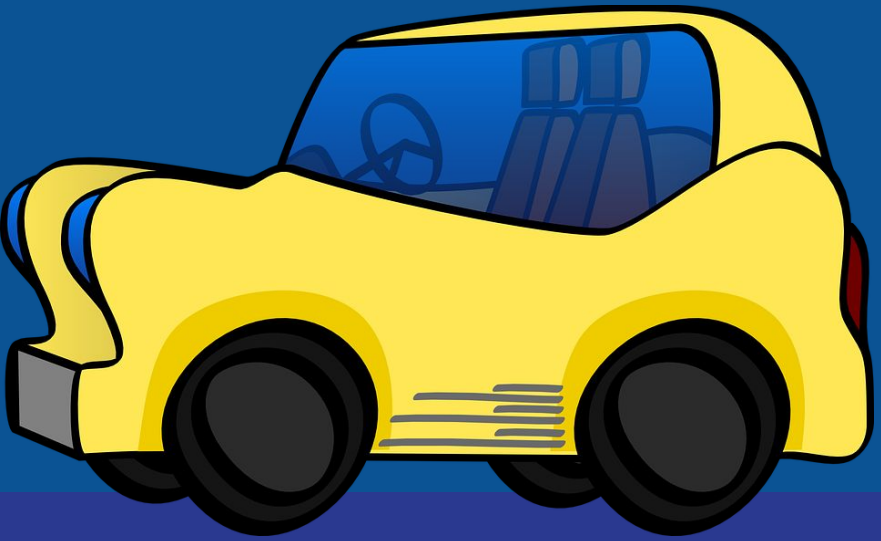
Instruction

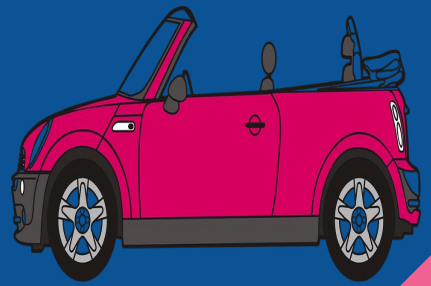
5. Put the plasticine over the sharp points of the sticks.
6. Firmly attach the little magnet to the inside of the tray and slide the tray.
7. Place the matchbox on a table top. Bring the other magnet close.
8. If the same colour poles are facing each other we should be good to go



How we are going to race

We are going to get two cars and put them side by side and see if they race in a straight line or go other directions or prepell of each other? Who do you think will win Conor’s big metal car or Ruairi’s smaller cardboard car





The result

Conor’s car moved much slower than Ruairi’s car because the metal from the wheels and the metal from the thing connecting the wheels cancelled the magnet out. Overall Ruairi is the winner but it was a good attempt from Conor

The science behind the experiment

The magnetic car works by using the attracting and repelling power of magnets. The cars will pull each other along to race.

If the north pole of one magnet is facing the south pole of the other magnet they will attract each other but if the two poles are the same they will repel each other .

Fun facts about magnets

1. The most powerful magnet ever is actually a star.
2. Lodestone is a natural magnet found in the ground.
3. The end of a compass needle always points to the north and south poles of the earth .
4. Hammering a magnet or heating it will stop it from being magnetic.

Thanks for listening