



Walking Talking Robot

Make your box robot move around - and talk at the same time.

It will be like having a new member of the family!

Equipment

1. Two small drinking straws (each about 6cm long).
Alternatively you could cut a longer straw in half.
2. One longer drinking straw (about 10cm long).
3. Two wooden dowels or rods (about 2m long, and 5mm in diameter). Dowel is a special type of wood that is round, like a pencil. You can buy dowel cheaply from any 'Do-it-yourself' store.
4. Four plastic bottle tops, a balloon, two elastic bands, some sticky tape, a hammer and a small nail.
5. A cassette player.



Safety Stuff

Check with an adult before you begin, as you might need their help at some stage. Working with items such as scissors can be dangerous, so be very careful when you use them and make sure that you never leave them open or lying around where smaller children can reach them.

Before starting any of these projects, cover the work surface you're going to use with some newspaper or an old cloth and make sure that you're wearing an apron or some old clothes. Gather together all the items you'll need before you begin. A lot of what you need can probably be found simply by looking around the house, but remember to check with an adult before you take anything! And don't forget to tidy up afterwards!

Steps

Step One

Use the information for making a Balloon Jet Car to design a way of making your robot move.

How will you attach the wheels and balloon jet to the robot?

When you have made your 'car', test it by trying it out. Do you notice any problems with your design? How can you solve them so the robot moves more smoothly?

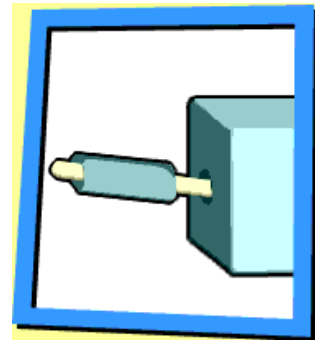


Step Two

Now make your robot's limbs move.

Attach the robot's arms and legs to wooden rods (such as dowel, which is a round wooden rod, like a long pencil). Put these inside the main part of the body to allow the arms and legs to move.

Can you make the robot walk and wave?



Step Three

Can you make your robot talk or sing?

Place a small cassette player or walkie-talkie inside its head so that it can speak.

How will you switch the cassette player on and off?

