

## 4.5 Investigation: Make a tightrope walker

### Aim

To make a tightrope walker that moves along a fishing line tied from one chair to another.

### Equipment

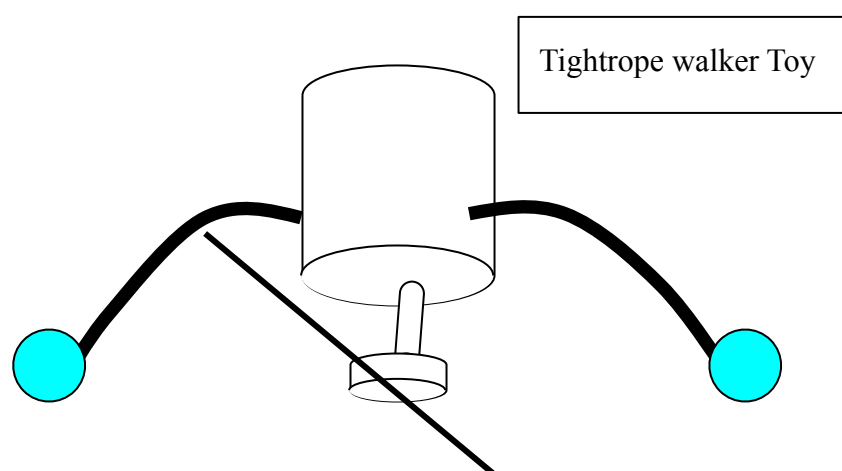
Cork from a wine bottle

Small Screw

Two Coat hanger wires about 10cm length

Plasticene or play-doh

Fishing line about 1 metre



### Method

1. Tie the fishing line from one chair to another so that it starts a little higher than the finish.
2. Make your tightrope walker by winding a screw into the bottom of the cork.
3. Now put the two wires in the sides of the cork, making sure they are opposite each other and **down low** on the cork
4. Bend the wires down and put a lump of plasticene on the each end (about grape size)
5. Test to see if the toy balances on your finger. If not bend the wire more or add more plasticene.
6. When it works OK, put the upside down screw on your taut wire at the start and see if it will slide down to the end.

### Results

Did it work well?

What did you need to change?

What other things would you like to try?