

## Jessica [REDACTED] STEAM Challenge

How do birds fly?

Video link [How Birds Fly](#)



### Transcript

Hi I'm Jessica from Birrale Scout Group and today I'll be showing you an experiment on how birds fly. So what you need is some scissors, a pencil, any cardboard from the recycling or any boxes you have lying around, some wrapping paper or any other light thing like tissue paper, an A4 sheet of paper, and some masking tape.

The first thing you need to do is you need to draw out your shape that we are going to be using for the experiment. I'm going to do a bird, you could do lips or just a circle. But you need to have a hole area for the experiment to work. So I'm going to start drawing the bird.

So I'm going to cut out the area in here so that's where the hole is going to be. You can put the hole anywhere really. So let's cut that out. If you can't do it, you might need your parents to help you. Mum!

So I've cut out my bird here. I've got its wing cut out, I've got its body is cut out. Next step is to get two strips of paper, one from your light paper and one from your normal piece of paper. You want them be about as wide as your thumb and as long as your hand. So I'm going to quickly do that.

So I've cut out my two strips, I've got my light one here and my normal piece of paper here. So we're going to stick this into here. You might want to stick it, I'm not going to because I am going to switch

between these two. So you've got this like this and then you blow lightly on it, it didn't lift very far did it. So then you blow hard, it lifted. But not quite like a bird, it's just lifting.

So now I'm going to use my lighter one, and we're going to put this in here and [blow] it flaps. Now that was a hard blow, this is a light blow, it lifts with a light blow, and it flaps with a hard blow.

How does this work? The air moving over the top of the wing has to go faster because it's taller, and faster moving air means it has low air pressure. And the wing goes up. Air pressure has to be bigger than the wing, so our heavier wing needs more air.

And that is how birds fly.