



Parent Notes: Flight!

AEROFOILS

Today, we learned that airplanes use something called Bernoulli's Principle to help create the lifting force which keeps them in the air. We did a few different experiments to demonstrate Bernoulli's Principle using a hair dryer and a model of an airplane's wing.

YOUR CHILD WILL NEED

- Hair dryer
- Square of toilet paper.....
- Plain paper.....
- Cardboard e.g cereal box card
- Tape.....
- Table or kitchen counter
- Long wooden skewer or stick
- Pencil or pen.....
- Scissors
- Plasticine or blue tack.....

ASK YOUR CHILD

What is Bernoulli's Principle?

(Fast flowing air creates low pressure)

How does Bernoulli's Principle help an airplane to fly?

(The shape of an airplane wing is designed so that air moves faster over the top which creates an area of lower pressure. The slower moving air underneath the wing creates higher pressure which pushes the wing upwards and creates a force called lift which helps a plane to stay up in the air)

How did you create the force of lift?

(Used a hairdryer to create moving air which travelled faster over the top of the aerofoil than underneath it)

Did you manage to lift your aerofoil off the table?

(This was their challenge today)