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Forces at work:
Drag and lift

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Slide 2

Forces: Drag and lift

What do you feel when you put your hand out the window of a car?

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Slide 3

Forces: Drag and lift

Some forces work on objects as they move through air, caused by the air itself.

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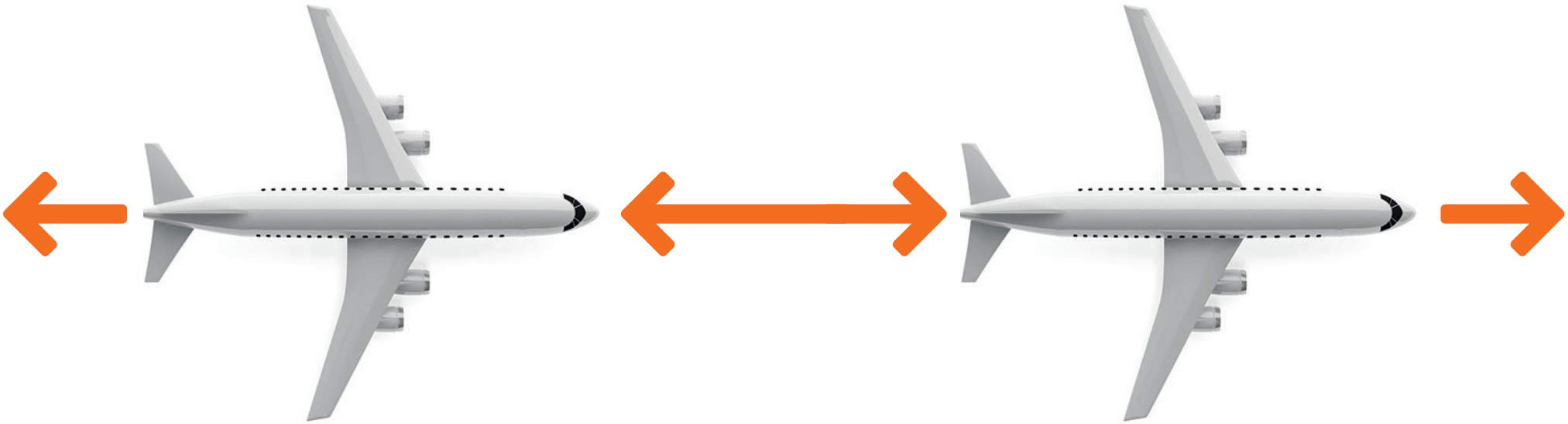
Slide 4

What type of wind would pilots prefer to take-off into?



Headwind?

Tailwind?

Slide 5

Defining drag and lift

drag

noun

The force that acts against the forward movement of something that is passing through a gas or a liquid

lift

noun

The force on the wing of a bird or aircraft that acts to keep it in the air as it moves forward

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Slide 6

Which direction are the forces acting in?

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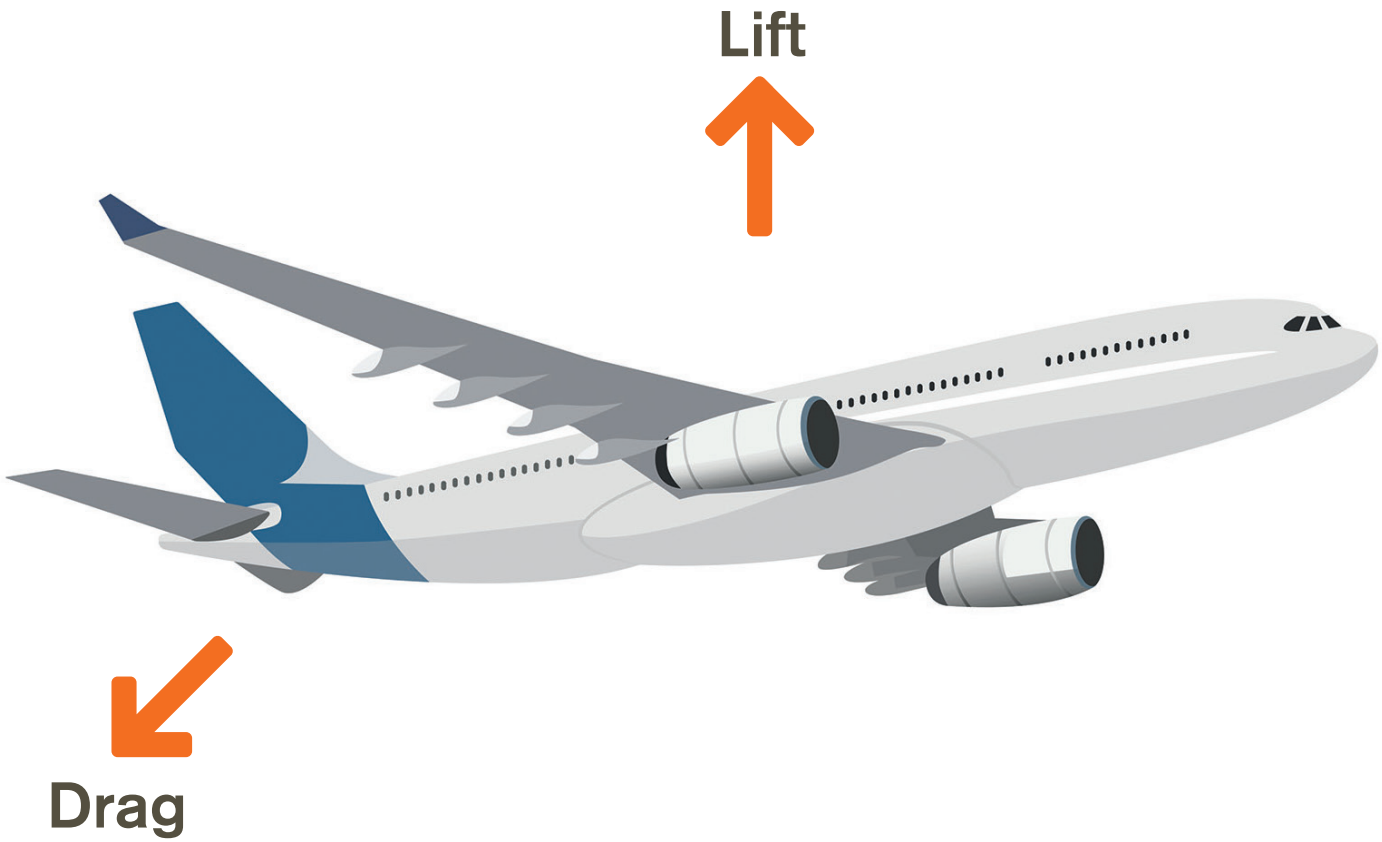
Slide 7

Which direction are the forces acting in?



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Slide 8

Introducing downforce

Downforce, or **negative lift**, is a force that pushes objects down towards the ground. It is a combination of air resistance with another force that pulls things towards the Earth: gravity.

Downforce

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Slide 9

Lab activity: Measuring lift

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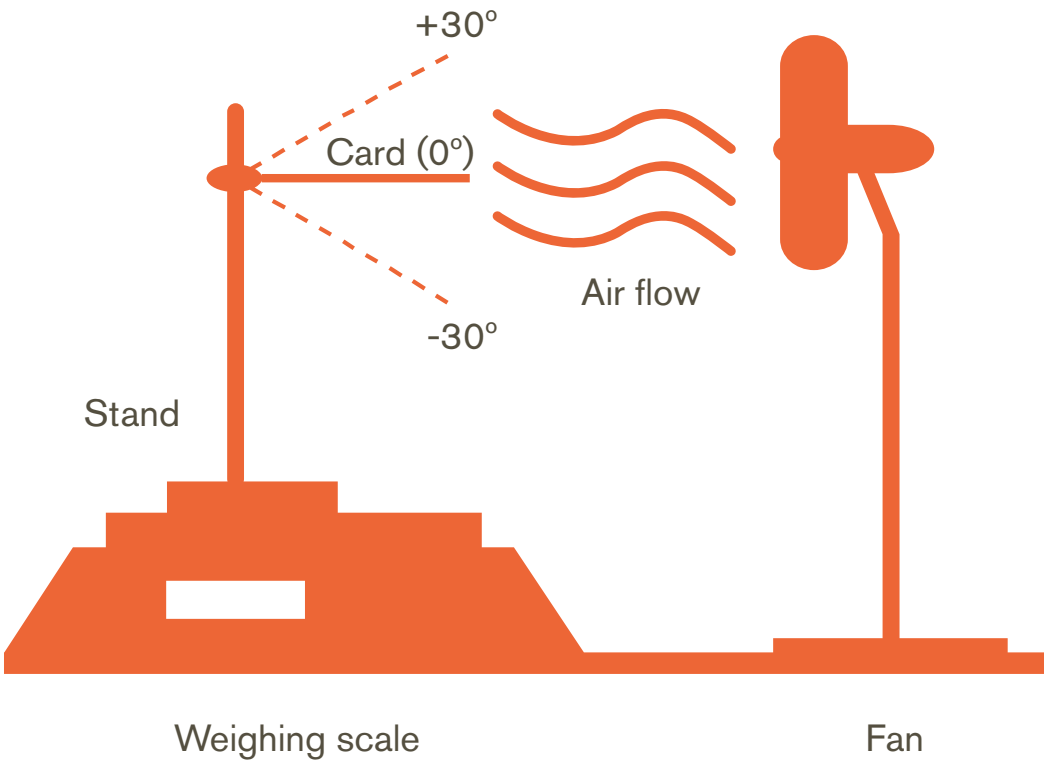
Slide 10

Lab activity: Equipment set up



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