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Forces at work: Bounce

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Slide 2

Forces: Bounce

Friction, drag and **lift** all combine with **gravity** and contribute to how much something bounces, such as a tennis ball.

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Slide 3

Forces recap: What is friction?

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Slide 4

Forces recap: Friction

friction

noun

The force between two objects that are moving, or trying to move, against each other

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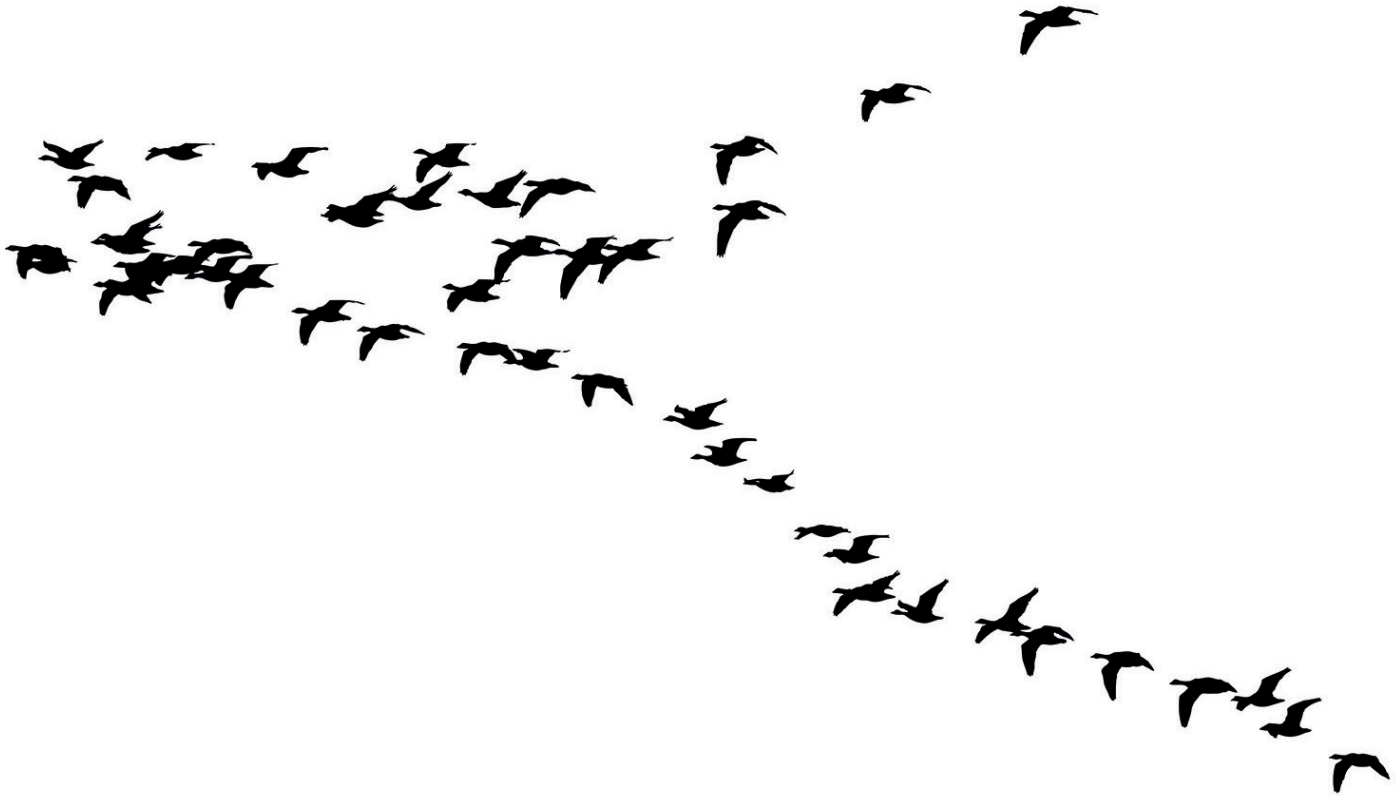
Slide 5

What is drag? What is lift?



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Slide 6

Forces recap: 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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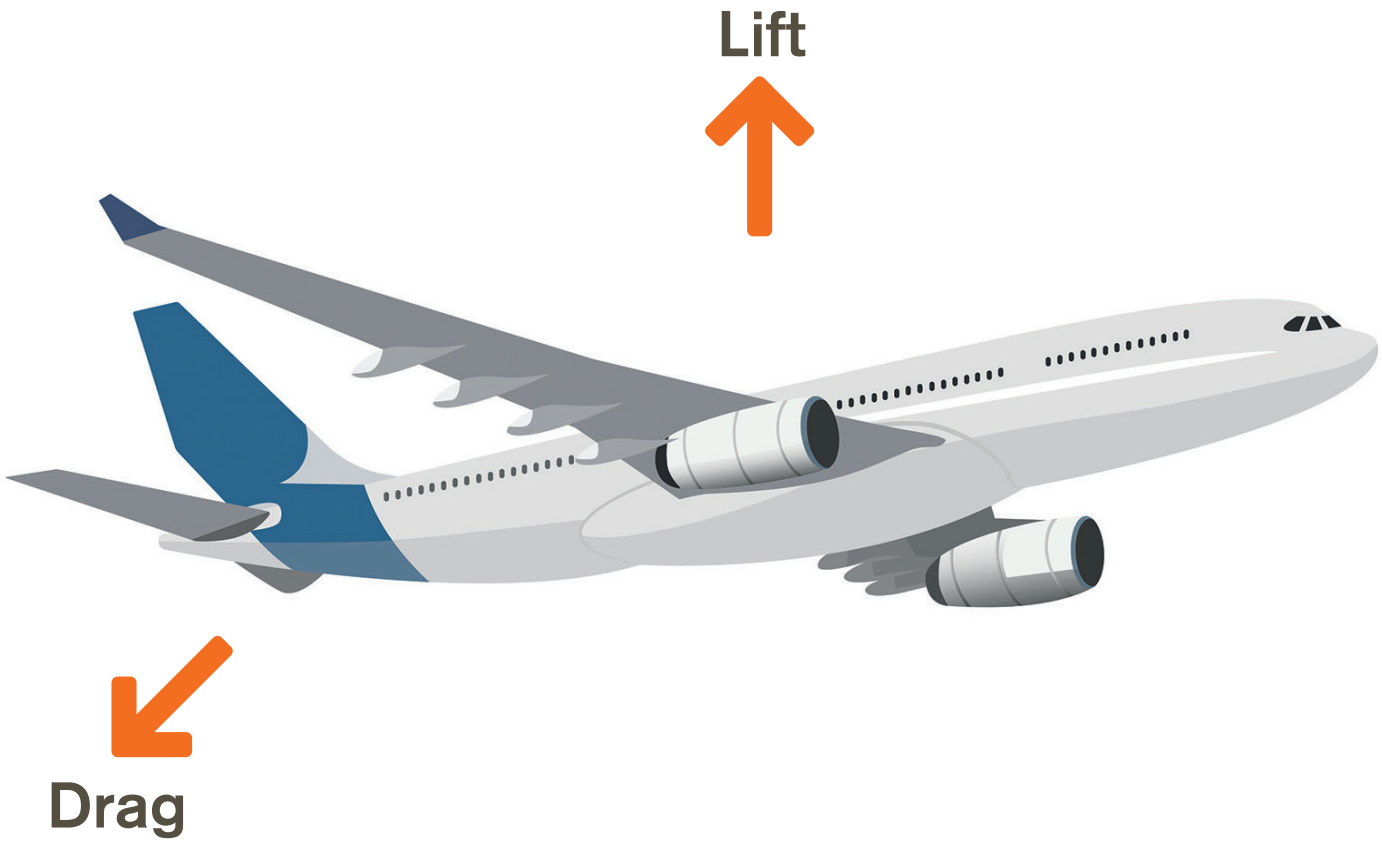
Slide 7

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 bounciness

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