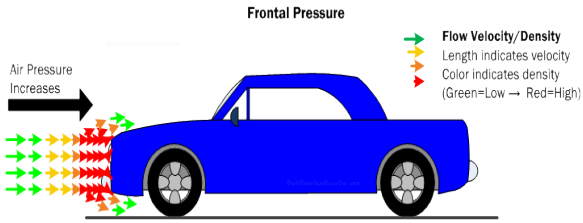
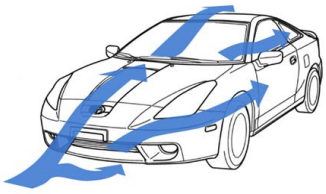
cience - Air Properties and Experiments - English

The Properties of Air
16mm Educational Films

7 min

https://www.youtube.com/watch?v=Grziaq-caVE





Two cars with different designs

Which car do you think will not be held back by the wind/air when driving?

This is air resistance

The Aerodynamics of Flight

7 min 13 sec

Flight

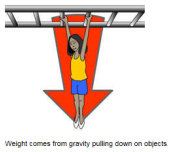
Four Forces of Flight

Before a person can understand flight, they must first learn about forces that control flying.

A **force** is a push or a pull in any direction

1) Gravity Force (Weight)

- Gravity is an invisible force that pulls towards the center of the earth. This is a downward "pull" that works against things that are trying to fly.


Weight comes from gravity pulling down on objects

(Because Earth has a large mass, all objects near it are pulled toward the center of earth)

2) Drag Force

- Drag is force that slows you down and works in the opposite direction than you are travelling. For example, when a parachute on a dragster opens up after the race, it creates a drag force that helps to slower the car down.