

Friction

Friction occurs between two surfaces that slide against each other.

Friction is the force that acts against you when you try to move something heavy.

The **rougher** the surface, the **stronger** the friction.

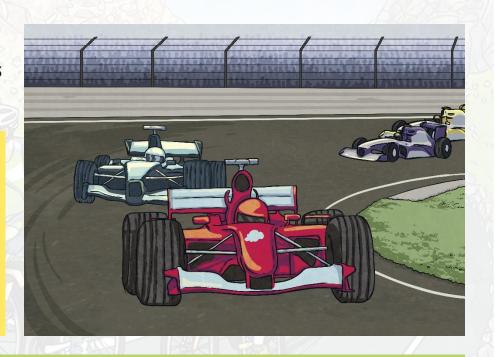


Friction produces heat, like when you rub your hands together.

Using and Reducing Friction

Friction is useful when it helps us **grip the floor** with our shoes and stop car tyres skidding.

However, for people like ice skaters, it is a good thing that ice causes very little friction.

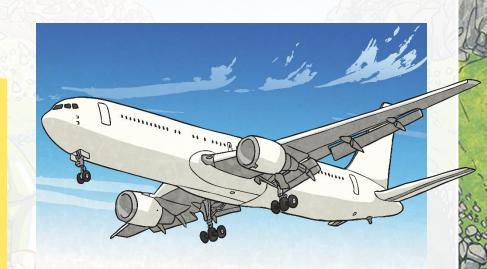


Friction can be reduced by using methods like **lubrication**. Your door hinges will probably be lubricated by oil to reduce the wear and tear caused by friction.

Air Resistance

Air resistance is a type of friction.

Air resistance makes it more difficult for an aeroplane to travel through the air.



The **streamlined** shape of an aeroplane helps to reduce air resistance.

Air resistance is also what makes parachutes work.



I would like you to design an experiment were you are testing the friction of different surfaces.

All you need is a toy car, a ramp and some different materials to let the car travel across. Look at the picture here to give

you some ideas.

Have fun!



