



# What is Friction?







# 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.



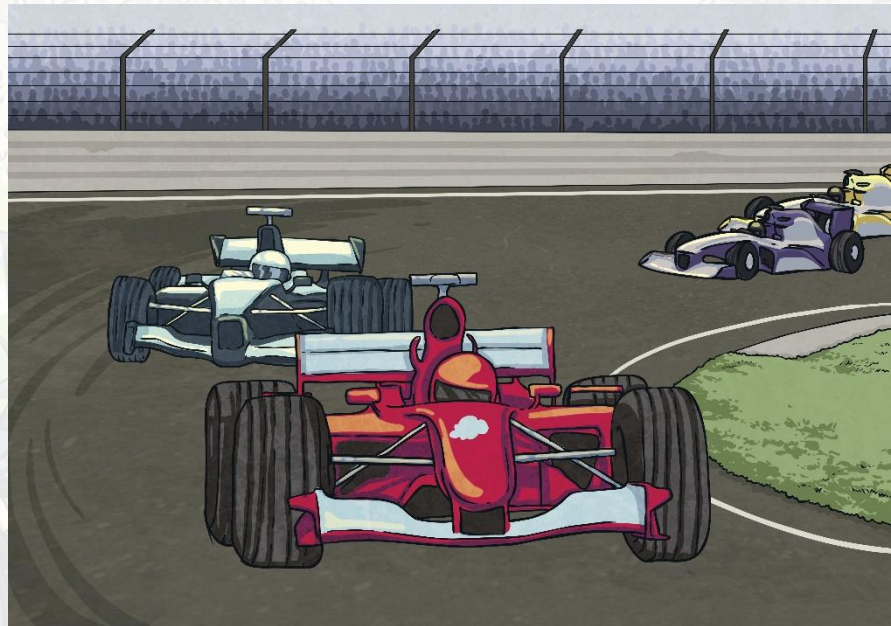
Friction produces heat, like when you rub your hands together.



# 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.





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