



GILES BROOK SCHOOL

- A force is a **push** or a **pull** in a particular direction.
- A force is needed to make an object **change speed or direction**.
- Gravity is a force which pulls things together.
- All objects have a gravitational pull.
- The Earth's gravitational pull is a force which pulls everything towards the centre of the Earth.
- Isaac Newton was a scientist and mathematician who is famous for his work on gravity.
- Air resistance is a type of friction between the air and another material.#
- Water resistance is a type of friction between an object and water particles.

Knowledge Organiser

SCIENCE - FORCES

I already know:

- How to compare how things move on different surfaces.
- Can notice that some forces need contact between two objects, but magnetic forces can act at a distance.

Key people

Sir Isaac Newton

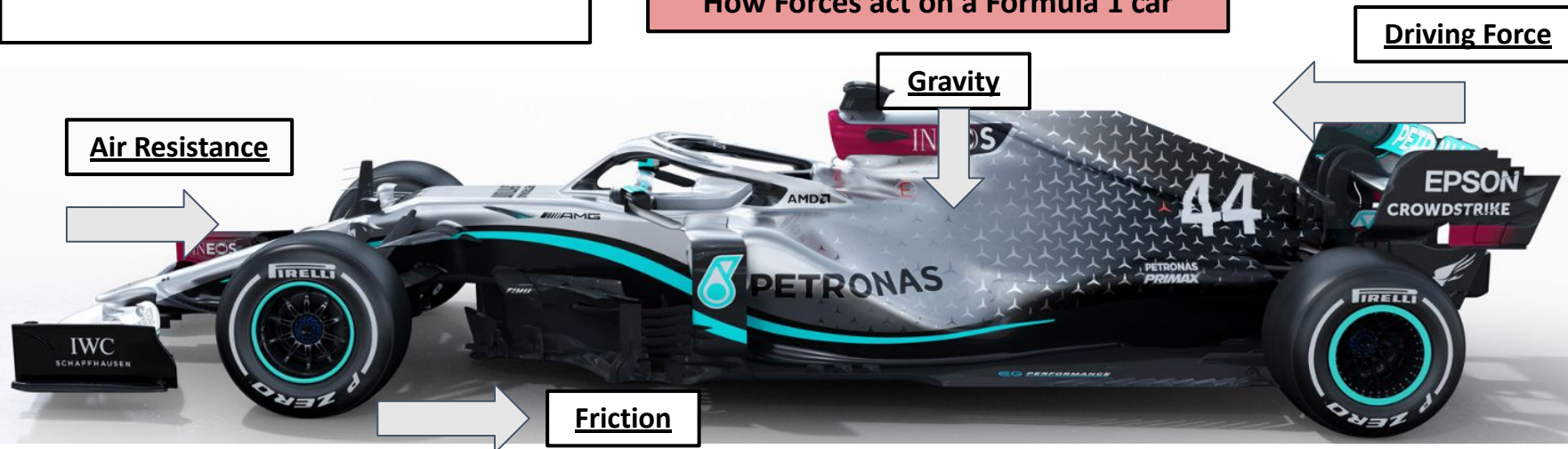


Trip

We visited Silverstone Race Circuit to learn about forces in motorsport.



How Forces act on a Formula 1 car



Key Vocabulary

force	Pushes and pulls in a particular direction.
gravity	A pulling force that works across space (on Earth it pulls towards the centre).
air resistance	A type of friction between air and another material.
water resistance	A type of force that slows things down that are moving through water.
driving force	The impetus, power, or energy behind something in motion.
weight	The force acting on an object.
mass	The amount of matter an object contains.
streamline	An object shaped to travel through air or water with as little resistance as possible.

Useful web links

<https://www.bbc.co.uk/bitesize/topics/znmmn39>

<https://www.theschoolrun.com/what-force>

<https://www.bbc.co.uk/bitesize/topics/zvr3nrd>