

Forces and Magnets

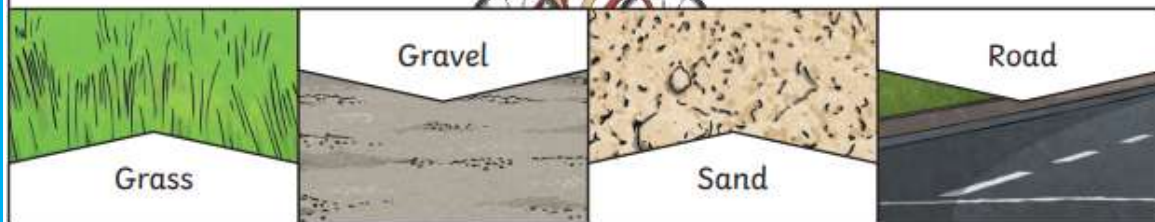
Vocabulary

Magnet	Poles	Attract
Repel	Forces	Metal
Properties	Magnetic	Friction

Different **surfaces** create different amounts of **friction**. The amount of **friction** created by an object moving over a **surface** depends on the roughness of the **surface** and the object, and the **force** between them.

The driving **force** pushes the bicycle, making it move.

Friction pushes on the bicycle, slowing it down.



Magnetic



Non-Magnetic

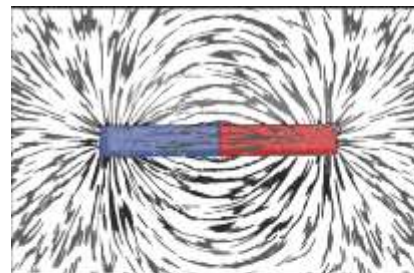


Forces will change the motion of an object. They will either make it start to move, speed up, slow it down or even make it stop.

Pushes

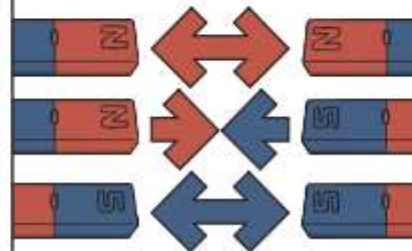


Pulls



Like **poles** repel.
Opposite **poles** attract.

A **magnetic field** is invisible. You can see the **magnetic field** here though. This is what happens when iron filings are placed on top of a piece of paper with a **magnet** underneath.



The needle in a compass is a **magnet**. A compass always points north-south on Earth.