

Key vocabulary	
force	A force is either a push or a pull force.
magnetic force	An invisible force that attracts magnetic metals.
magnet	Magnets attract magnetic materials. Iron, nickel, cobalt and materials that contain these (e.g. stainless steel) are magnetic.
attract	To pull towards.
repel	To push away.
poles	Magnets have two poles, a north pole and a south pole.
friction	The resistance of one surface or object rubbing against another.

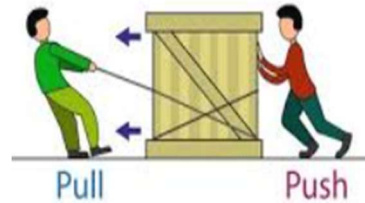
A magnet attracts magnetic materials.

We can sort and classify materials as:

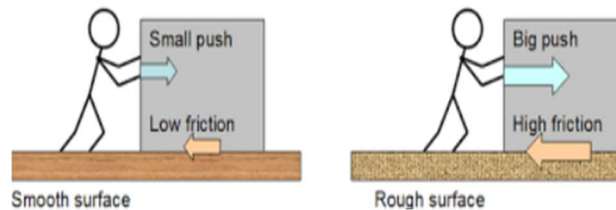


Year 3 - Forces and magnets

All forces are basically either push or pull forces:



Objects moving on a surface (friction)



Walking on ice is slippery because there is little friction. Trainers do not grip the ground well

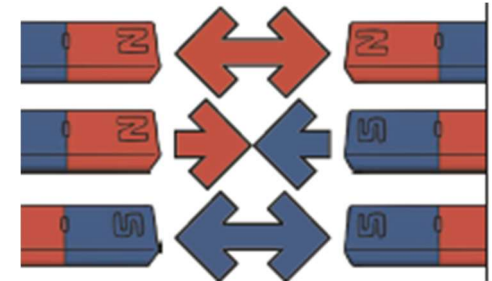
The rough surface of these stones means the trainers have more grip (more friction)



A bowling green is closely mown so the grass is short and smooth which means there is less friction

A magnetic field is an invisible force

Magnets have two poles

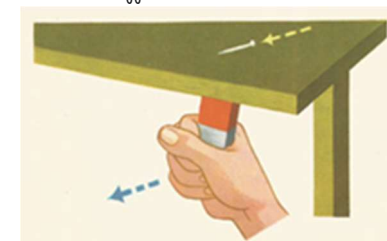


Like poles repel. Opposite poles attract

Some uses of magnets

Types of magnets:	
Bar 	Ring
Button 	Horseshoe

- Magnets are used in magnetic compass, doorbells, fridge doors.
- Magnets are used in speakers, microphones etc.
- Magnets are used in computers.
- Magnets are used in toys to give a magic effect.



A magnet does not need to touch an object to attract it.