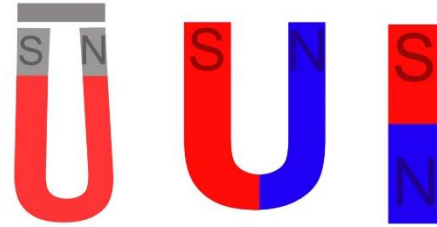


What should I already know?

- Things move when they are pushed or pulled.

Facts about forces

- Magnets produce a magnetic force around itself, called a **magnetic field**.
- Some metal objects will be attracted to this magnetic field.
- Some forces need contact between two objects.
- Magnets produce a non-contact force that can work at a distance.
- When objects are pushed and pulled, an opposing force can be felt called friction.
- **Friction** causes thing to slow down or stop.



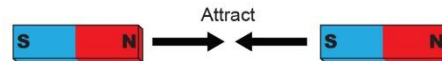
Horseshoe magnet

U-shaped magnet

Bar magnet

Poles of a magnet

- Each end of a magnet are known as either the North or South pole.
- Two magnets will either attract or repel each other in the following way:



- The same poles repel.
- Opposite poles attract.

Key Vocabulary

Movement or motion	Changing of position.
Surface	The top layer of something.
Forces	A force can change the motion of an object.
Push	Causes motion away from the source of force.
Pull	Causes motion towards the source of force.
Contact force	A force that must touch another object to affect it.
Non-contact force	A force that can affect something from a distance.
Magnet	A material or object that produces a magnetic field so that it attracts or repels other magnetic objects.
Attract	To pull towards.
Repel	To push away.
Poles	North and South poles are found at opposite ends of a magnet.
Magnetic materials	Materials which can be attracted or repelled when placed in a magnetic field.