

FORCES AND MAGNETS

Key Vocabulary

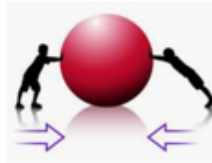
magnetic, forces, surface, push, pull, attract, repel, magnetic pole, north, south.

Forces

What are forces?

-A force is the push or pull in a particular direction.

-Forces are shown by arrows in diagrams. The bigger the arrow, the bigger the force. The direction of the arrow shows the direction of the force.



Pushes and Pulls



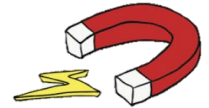
-A push is the force that moves an object away from something.



-A pull is the force that brings an object towards something.

-A push and a pull are opposite forces.

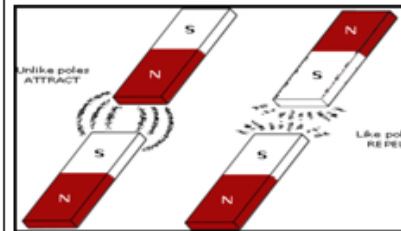
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Magnets

magnetic	non-magnetic
 washer	 eraser
 iron filings	 drinking straws

- A magnet is made of materials that create a magnetic field.
- Magnets create a 'magnetic force' that causes objects to **attract** (pull closer together) or **repel** (push further apart).
- Magnets can act at a distance.



- Magnets have a north pole and a south pole.
- Like poles repel.
- Unlike poles attract.

Assessment question: How do magnets work?

Magnetic Materials

Iron Steel Nickel Cobalt Gadolinium

Non-Magnetic

Copper Gold Rubber Wood Leather