
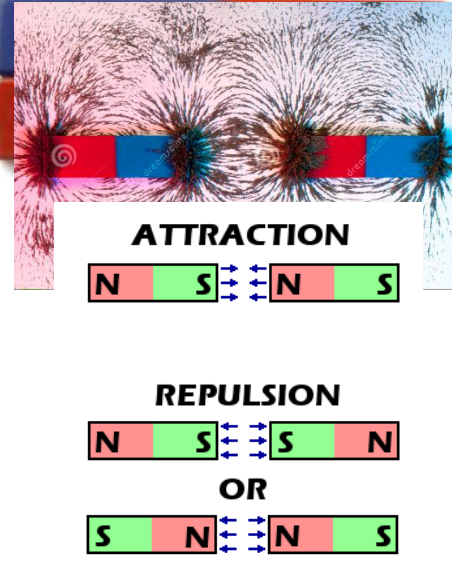


## Forces and magnets

**Context:** Force is a strength or energy as an element of physical action or movement

**P.O.S –** Forces and magnets

Concept – physics (energy transfer and forces ) Energy makes things happen and can be transferred from one object to another.

| Facts   | Vocabulary  |
|---|---|
| <p>1. Objects on different surfaces:</p> <p>a) Friction is the contact force between two objects moving against each other; the kind of surface that objects have affects how objects move against each other.</p> <p>b) Gravity is the force that pulls objects down slopes or makes them fall.</p> <p>c) A force can slow down or speed up an object.</p> | <p>1. Magnet - from Latin magnes, magnet-, from Greek magnēs lithos 'lodestone',</p>  |
| <p>2. Forces:</p> <p>a) Some forces need contact between two objects but magnetic forces can act at a distance</p>  | <p>Different types of magnets with two poles:</p>  <p>IV</p>  <p style="text-align: center;"><b>ATTRACTION</b></p> <p style="text-align: center;">N S → ← N S</p> <p style="text-align: center;"><b>REPULSION</b></p> <p style="text-align: center;">N S ← → S N</p> <p style="text-align: center;"><b>OR</b></p> <p style="text-align: center;">S N ← → N S</p> |
| <p>3. Magnets and their force:</p> <p>a) A magnet is a material or object that produces a magnetic field.</p> <p>b) A magnetic field is invisible but is responsible for the property of a magnet</p> <p>c) A force that pulls on other magnetic materials, such as iron, and attracts or repels other magnets.</p>   |   |
| <p>4. Metals:</p> <p>a) All magnetic materials are metal but not all metals are magnetic</p>  |   |
| <p>5. Metals that are magnetic:</p> <p>a) Iron</p> <p>b) Cobalt</p> <p>c) nickel</p> <p>d) Steel</p>  |   |
| <p>6. Magnets have two poles:</p> <p>a) North</p> <p>b) South</p> <p>c) North and South attract -the force by which one object attracts another.</p> <p>d) North and North repel</p> <p>e) South and South repel</p>  |   |
| <p>Websites:</p> <p><a href="https://www.bbc.com/bitesize/topics/zyttyrd">https://www.bbc.com/bitesize/topics/zyttyrd</a></p> <p><a href="https://www.bbc.com/bitesize/clips/zk9rkqt">https://www.bbc.com/bitesize/clips/zk9rkqt</a></p>  |   |