

FRICION AND MAGNETS

Vocabulary

Attract: Causing another object to move towards it. **Friction:** The resistance of motion when there is contact between two surfaces. **Force:** The pulling or pushing effect that something has on something else. **Gravity:** The force which causes things to drop to the ground. **Magnet:** A piece of iron or other material which attracts magnetic materials towards it. **Poles:** The ends of a magnet where the magnetic force is the strongest. **Repel:** To push something away. **Resistance:** A force which slows down a moving object.

Forces

Forces are pushes and pulls. They can be a contact force (where objects touch) or a non-contact force (where objects aren't touching). A force can change the motion of an object by making it start to move or speed up, slow it down or even make it stop.

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Magnetic Forces

When two magnets are close, they create pushing or pulling forces on one another.

If you try to put two magnets together with the same poles pointing towards one another, the magnets will push away from each other. We say they repel each other. If you put two magnets together with different poles pointing towards one another, the magnets will pull towards each other. We say they attract each other.



Friction

Forces act in opposite directions to each other. When an object moves across a surface, friction acts as an opposite force. Friction is a force that holds back the motion of an object. Some surfaces create more friction than others which means that objects move across them slower.

