

Magnets

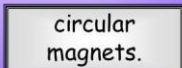
Magnetism is an invisible force. It pulls metal objects which are magnetic towards a magnet. There are lots of different types of magnets. These include.....



horseshoe magnets,



bar magnets and...



circular magnets.



Let's look at some other objects. Can you guess which ones will be magnetic?

This ball is made of rubber and is not magnetic.

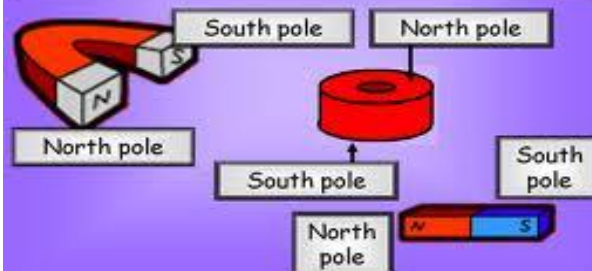
The pencil is not made from a magnetic material.

This knife is made of steel, which is magnetic.

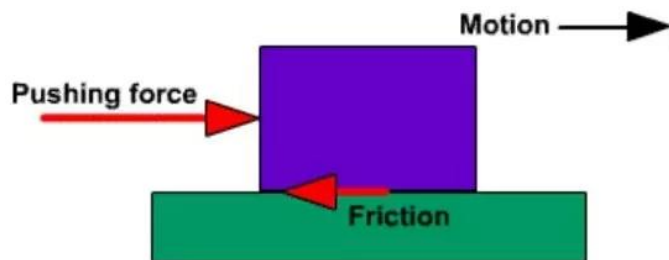
The screw is made from iron, just like the nail.



All magnets have two poles - a South pole and a North pole. You can see them marked on these pictures.



Friction



Friction is a force that holds back the movement of a sliding object. The force acts in the opposite direction to the way an object wants to slide.

Air resistance is a force that slows down an object that is travelling through the air.

Forces and Magnets

Forces

Gravity



Gravity is a force of attraction that pulls together all matter (anything you can physically touch). The more matter something has, the greater the force of its **gravity**. That means really big objects like planets and stars have a stronger **gravitational** pull.