

# WJEC England GCSE Physics

## 8.1 - Permanent and Induced Magnetism, Magnetic Forces and Fields

Flashcards



At which part of a magnet are the magnetic forces strongest?



At which part of a magnet are the magnetic forces strongest?

The poles of the magnet.



What happens when two magnets are brought close to each other?



What happens when two magnets are brought close to each other?

They exert a force on each other.



What type of force is exerted if two like poles of a magnet are brought near each other?



What type of force is exerted if two like poles of a magnet are brought near each other?

A repulsive, non-contact force.



What type of force is exerted if two unlike poles of a magnet are brought near each other?





What type of force is exerted if two unlike poles of a magnet are brought near each other?

An attractive, non-contact force.



What is the difference between a permanent magnet and an induced magnet?



What is the difference between a permanent magnet and an induced magnet?

- A permanent magnet produces its own magnetic field.
- An induced magnet becomes magnetic when placed in a magnetic field.



What type of force does induced magnetism always cause?



What type of force does induced magnetism always cause?

A force of attraction.



What happens when an induced magnet is removed from a magnetic field?



What happens when an induced magnet is removed from a magnetic field?

The induced magnet loses most/all of its magnetism.



How does the strength of a magnetic field alter as you move further away from the magnet producing it?





How does the strength of a magnetic field alter as you move further away from the magnet producing it?

The magnetic field strength decreases the further you move away.



In what direction does a magnetic field point?



In what direction does a magnetic field point?

- In the direction that a north pole would experience a force if placed in the field.
- From the north seeking pole to the south seeking pole of a magnet.



What does the behaviour of a magnetic compass provide evidence for?



What does the behaviour of a magnetic compass provide evidence for?

- A magnetic compass always points to the North seeking pole regardless of position.
- This provides evidence for the Earth having a magnetic core.

