



1 What property of magnets allows them to attract or repel each other?

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

3 What are permanent magnets made of?

4 What is an induced magnet and how is it different to a permanent magnet?

5 What generates the Earth's magnetic field?

EXTENSION RESEARCH TASK
Use the QR codes to carry out some research and design a poster about the uses of magnets.



11 Drawing 1 of the magnets in the video shows that sometimes before

10 Look at the diagram of the bar magnets. Explain when the magnets will attract or repel.

9 Think of an example of a non-magnetic material that is attracted to a magnet.

8 What are electromagnets and how are they different from permanent magnets?

EXPLORING MAGNETISM: MAGNETS AND MAGNETIC FIELDS

Magnets have a special feature: they can interact with other magnets or objects with the property of being able to attract or repel. This property is called **magnetism**. Magnets also have the property of being able to attract or repel objects that are made of certain materials.



A magnet's field is an invisible force field that extends in all directions, originating from the poles of the magnet. It pushes away things that are repelled and pulls towards things that are attracted. When two magnets are brought close to each other, their magnetic fields interact. If the magnets have opposite poles, such as a **north** and **south** pole, their magnetic fields attract each other, resulting in the magnets being pulled together. Conversely, when two magnets have the same poles, their magnetic fields repel, causing the magnets to push each other away.



Magnets come in many different shapes. There are **permanent magnets**, for the most part, which have been magnetized during manufacturing, which means their magnetism never goes away. They are made from materials such as **iron**, **nickel**, **cobalt**, and **steel**. In contrast, there are **induced magnets**, which become magnetized only when they are near a permanent magnet. These temporary magnets lose their magnetism once they are separated from the permanent magnet.

For the **Earth's magnetic field** to be generated, it is essential that the Earth's core is made of molten iron. The swirling motion of this molten iron creates **electric currents**, which in turn generate a magnetic field. This process is called the **geodynamo effect**.



The Earth's magnetic field serves several vital roles in our lives. Firstly, it acts as a shield, protecting us from the harmful particles coming from the **sun**, known as the **solar wind**. Secondly, it allows us to use a compass to find our way. The compass needle is a small magnet that aligns itself with the Earth's magnetic field. This alignment enables the compass needle to point towards the Earth's magnetic north pole. By following the compass needle, we can find our way.

Furthermore, the Earth's magnetic field plays a vital role in the **aurora borealis** and **aurora australis**, which are beautiful light displays seen in the northern and southern hemispheres. These displays are caused by the interaction between the solar wind and the Earth's magnetic field. The solar wind carries charged particles that are deflected by the Earth's magnetic field towards the poles. This deflection causes the particles to interact with the atmosphere, creating the colorful light displays.

In addition to permanent and induced magnets, there are another type called **electromagnets**. Electromagnets are created by passing an **electric current** through a wire coiled around a magnetic material. By controlling the electric current flowing through the wire, the strength of the magnet can be adjusted. Electromagnets have many applications in devices such as electric motors, generators, and transformers.

6 How does the Earth's magnetic field protect us?

7 How do compasses work?

Magnets And Magnetic Fields Guided Reading

21 1 Concept Review Magnets And Magnetic Fields Answers

Lingjun Ying



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Discover! Magnetism & Electricity (ENHANCED eBook) Dallas Koch, Cindy Barden, 2000-09-01 The activities in this book provide an introduction to the basic concepts of magnetism and electricity Material presents magnets circuits and battery cells Work is suitable for individuals small groups or class instruction General background information suggested activities questions for discussion and answers are included Encourage students to keep completed pages in a folder or notebook for further reference and reviews

Physics For NEET/AIIMS Volume 2 Jain, M.C., Physics for NEET Volume II has been written in a simplistic style which helps the student to not only study by themselves but also accrue confidence of knowing concepts by solving numerous MCQs which are aptly placed based on the level of difficulty The book covers topics which are normally part of Class XII syllabus and are replete with Illustrations and previous years questions Test papers and latest NEET exam papers are also added and with solutions to almost all questions the book provides a complete practice based atmosphere for the student to revel in

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