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## **Physics Study Guide Magnetic Fields**

Magnetic fields affect moving charges, and moving charges produce magnetic fields; therefore, the concepts of magnetism and electricity are closely intertwined. Magnetic fields and lines of force A bar magnet attracts iron objects to its ends, called poles. One end is the north pole, and the other is the south pole.

## **Electromagnetic Forces and Fields - CliffsNotes Study Guides**

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The magnetic field created by a magnetic dipole (at distances much greater than the size of the dipole) is approximately equal to a constant,  $\mu_0/4\pi$ , multiplied by the dipole moment divided by the cube of the distance from the dipole. EDIT: This formula is incomplete.

### **Physics Study Guide/Magnetism - Wikibooks, open books for ...**

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to learn about magnetism, the field remained complete separate from the study of electricity; at the time, it seemed inconceivable that the two could be related in any way.

## **SparkNotes: Introduction to Magnetic Forces and Fields**

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7. The force on a moving charge in a magnetic field is always proportional to The speed of light The angle between the velocity of the charge and the magnetic field The velocity of the charge None of the above

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## **SparkNotes: Review of Magnetic Forces and Fields: Test**

The magnetic field through a loop can be changed either by changing the magnitude of the field or by changing the area of the loop. To be able to quantitatively describe these changes, magnetic flux is defined as  $\Phi = BA \cos\theta$ , where  $\theta$  is the angle between  $B$  and the direction perpendicular to the plane of the loop (along the axis of the loop).

## **Electromagnetic Induction - CliffsNotes Study Guides**

Physics Equations for Electricity and Magnetism. Electricity and magnetism make up one of the most successful fields of study in physics. When working mathematically with electricity and magnetism, you can figure out the force between electric charges, the magnetic field from wires, and more.

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a very small group, usually 10-1000 u, that is formed when the magnetic fields of the electrons in a group of neighboring atoms are aligned in the same direction third right-hand rule a method that can be used to determine the direction of the force on a current-carrying wire in a magnetic field

### **Physics Chapter 24 Magnetic Fields Flashcards | Quizlet**

Magnetism Study guide. Terms in this set (11) Magnet. An object that is surrounded by a magnetic field and that has the property, either natural or induced, of attracting iron or steel. Magnetic pole. one of the two ends of a magnet where the magnetism seems to be concentrated. Magnetic force.

### **Magnetism Study guide Flashcards | Quizlet**

Physics on Khan Academy: Physics is the study of the basic principles that govern the physical world around us. We'll start by looking at motion itself.

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## **Magnetic field created by a current carrying wire | Physics | Khan Academy**

Physics Chapter 24 Study guide. Terms in this set (20) A group of neighboring atoms whose electrons' magnetic fields all align in the same direction is called a(n) \_\_\_\_ . A long coil of wire that contains many loops is called a(n) \_\_\_\_ . \_\_\_\_ exist in a region of space where a magnetic force occurs.

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Terms in this set (...) polarized. describes the property of having two distinct, opposite ends, one of which is a north-seeking pole and the other of which is a south-seeking pole. magnetic fields. the area around a magnet, or around any current-carrying wire or coil of wire, where a magnetic force exists. magnetic flux.

## **Physics Principles and Problems Chapter 24 Magnetic**

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## **Field ...**

study guide Electricity and Magnetism | Physics Guide In this folder, you will explore the concepts involved in electricity and magnetism including: Electrostatics (including Gauss's law), DC Circuits, Magnetostatics (including Ampere's law), Electrodynamics (including Faraday's law), and Time...

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Electricity is made of subatomic particles called Electrons and so are Electric Fields and Magnetic Fields. One must also note that electrical fields come under the category of spherical fields as the inverse square law may be applied to the electrical field. This means that the electrical force,...

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at a point is equal to the direction of the field line passing through that point.

## **Topic 5: Electricity and magnetism - IB Physics**

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