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## ***what is magnetic force article khan academy***

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the magnetic force is a consequence of the electromagnetic force one of the four fundamental forces of nature and is caused by the motion of charges two objects containing charge with the same direction of motion have a magnetic attraction force between them

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using the rhr for force and flipping answer due to negative charge we get a magnetic force which points to the left example pageindex 3 below are two current carrying wires with unknown magnitudes and currents flowing in the opposite directions

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how did the magnetic force change what determines whether or not a material is magnetic and more study with quizlet and memorize flashcards containing terms like the attractive force between two magnets increases

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describe and interpret drawings of magnetic fields around permanent magnets and current carrying wires calculate the magnitude and direction of magnetic force in a magnetic field and the force on a current carrying wire in a magnetic field

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objectives to start with the magnetic force on a moving charge  $q$  and derive the force on a wire segment carrying current  $i$  to calculate the torque on a rectangular loop of current carrying wire sitting in an external magnetic field

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review your understanding of magnetic forces in this free article aligned to ngss standards key points a magnet is any object that can attract other materials with magnetic properties through a magnetic force

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charges moving across a magnetic field experience a force determined by  $\vec{F} = q \vec{v} \times \vec{B}$  the force is perpendicular to the plane formed by  $\vec{v}$  and  $\vec{B}$

## **chapter 27 the magnetic field and magnetic forces**

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chapter 27 the magnetic field and magnetic forces physics 207 problem 1 f b f g f n  $\theta$  i mgtan $\theta$  lb out of page in side view or left in front view problem 2 b 1 20d r mv e out of the page 3a countering  $\tau$  i 0abbcos $\theta^j$  3b countering  $\tau$  i 0abbsin $\theta^j$  3c same as above 4a v mgr lb 4b a 9g 5a m 2 m 1 r 2 r 5b

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in which direction does the magnetic force act on the wire up a wire carries a current of 5 2 a from east to west through a 6 0 m section of wire in the earth s magnetic field of 1 10 5 t at a location where the magnetic field points south

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what is the net force on the particle to solve the problem we use the equation q so we must find the vector sum of the electric force and the magnetic force the electric force is easy it is simply  $qE$  in the positive x direction

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the magnetic force equation derived from the lorentz force calculates the magnetic force  $f$  acting on a charged particle for a moving charge the equation is  $f = qvB \sin\theta$  where  $q$  represents the charge  $v$  is the velocity  $B$  is the magnetic field and  $\theta$  is the angle between the velocity vector and the magnetic field vector

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the electron must be deflected upwards by a distance  $h$  3cm using a uniform magnetic field  $B$  before striking the phosphorescent screen which is a distance  $d$  5cm away what direction and magnitude must the magnetic field have in order to steer the electron towards its destination answer

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a type of magnet whose magnetic field is produced by the flow of electric current see an expert written answer we have an expert written solution to this problem study with quizlet and memorize flashcards containing terms like magnetism magnetic domains are permanent magnet and more

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key learning points magnetic forces are forces caused by magnets magnetic forces are non contact forces a magnet can act at a distance so it does not have to be touching the object scientists make observations and measurements about the world to help them to find out more about things

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a magnetic field is generated by a feedback loop current loops generate magnetic fields ampère s law a changing magnetic field generates an electric field faraday s law and the electric and magnetic fields exert a force on the charges that are flowing in currents the lorentz force

## **magnetic forces video magnetic forces khan academy**

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magnets will attract or repel each other and this attraction or repulsion is a magnetic force but magnetic forces don t affect everything the same way otherwise a magnet would stick to you not just a refrigerator in this video we re going to talk about the magnetic forces between two magnets

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explore the strength or magnitude of magnetic forces with this two page physics worksheet for middle grades in this science worksheet about forces and interactions students will read a brief introduction and then observe several series of magnet pairs to make predictions about their relationships based on several properties

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