

# Magnetic Force Pre Lab Assignment Usna

## Chapter 1 : Magnetic Force Pre Lab Assignment Usna

Sp212 lab: sixà magnetic force version: february 24, 2015 page 1 of 2 physics ii lab 6 sp212 magnetic force pre-lab assignment homework problem electrons of charge  $e$  and mass  $m$  are accelerated through a potential difference  $v$  accel, and fired from an electron gun, as shown in the detail included in the figure. Prelab: magnetic force on a charge carrying wire instructions: prepare for this lab activity by answering the questions below. note that this is a prelab. it must be turned in at the start of the lab period. time cannot be given in lab to perform prelab activities. Pre-lab quiz/phys 224 . magnetic force and current balance . your name \_\_\_\_\_ in this lab, you investigate magnetic force between two parallel current-carrying wires and the magnetic force induced by wire 1 on a segment of wire 2 of length  $l$ . Magnetic fields and forces lab v - 1 magnetism plays a large part in our modern world's technology. magnets are used today to image parts of although they are related, the magnetic force is not the same as the electric force. you should watch for the differences as you go through the problems in this lab. Phy222 lab 7 - magnetic fields and right hand rules magnetic forces on wires, electron beams, coils; direction of magnetic field in a coil the magnetic force will always be directed towards the center of the particle's circular path. 1. activity #1: review answers to pre-lab questions 1.1 with your lab partners at your workstation, review Experiment 4: forces and torques on magnetic dipoles objectives 1. to observe and measure the forces and torques acting on a magnetic dipole placed in an external magnetic field. pre-lab reading introduction in this lab you will suspend a magnetic dipole (a small but strong bar magnet) in the field Physics 1102 experiment 6 pre lab is the direction of the magnetic field around wire 1 clockwise is doubled, while the distance of separation remaining constant. what is the magnitude of the force that one wire exerts on the other? (b) when a magnetic field is parallel to a current-carrying wire, what is the force on the wire?

Lab 09 pre-lab notes: electricity, magnetism, and induction 2 . magnetic fields magnetism is a phenomenon similar to electricity. instead of charges there are poles. opposite poles attract and like poles repel each other. there is a magnetic field; a small compass (a test magnet!) aligns with this magnetic field. Pre-lab: current balance name: the magnetic field points down the page (in the plane of the page) and a wire goes straight across the page, with current flowing from left to right will plot magnetic force versus current (force = "y" and current = "x") and draw a best fit line. Experiment 5: faraday's law objectives to see how and why the direction of the magnetic force on a conductor carrying an induced current is consistent with lenz's law. lenz's law says that the system always responds so as to try to keep things the same. pre-lab reading introduction in this lab you will develop an intuition for faraday's law. Third grade physics 3 weeks lesson plans and activities. math/science nucleus ©1990,2000 2 lab: discovering magnetic force. post: comparing objects that are magnetic and non-magnetic. week 5. pre lab objective: 1. exploring magnetism. 2. comparing how a magnet repels and attracts. Lab manual for general physics ii - 10164 department of physics & astronomy texas christian university, fort worth, tx spring 2013 Pre-lab assignments a. readings: in an electric field  $E$ , an electron experiences a force  $F = eE$  (1) where  $e$  is the electric charge of the electron. in a magnetic field  $B$ , the electron is subject to a force  $F = evB \sin \theta$  (2) where  $v$  is the velocity of the electron. a force causes acceleration according to the relation  $F = ma$  (3) where  $m$

Lab ec-6 pre-lab instructions problem ec-6a 1. read the lab up to and including prediction. make sure you understand what the sketching what the combined magnetic field map for two dipoles (magnets) will look like. so, the direction of the force will be up or down.

## Related PDF Files

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[Dipoles, You Must Show And Explain All Work In A Neat And Organized, Lab 09 Pre Lab Notes Electricity Magnetism And Induction, Pre Lab Current Balance Name Cpp, Experiment 5 Faraday S Law Mit Opencourseware, Third Grade Physics Msnucleus, Lab Manual For General Physics Ii 10164, Phy 222 Lab 9 Motion Of Electrons In Electric And, Lab Ec 6 Pre Lab Instructions Uw Madison Astronomy](#)