

SECTION 21.1 MAGNETS AND MAGNETIC FIELDS ANSWER KEY pdf

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Magnets and magnetism answer key pdf section 21 1 magnets answer key pdf 21 1 magnets and magnetic fields pdf chapter 21 section 21 1 magnets and.

This force is exerted on other magnets, on iron or a similar metal, or on moving charges. Magnetic force acts over a distance but weakens as you move farther away from the magnet. Poles are regions of a magnet where the force is strongest. All magnets have two poles. One end of a magnet is its north pole. The other end is its south pole. If you cut a magnet in half, each half will have a north pole and a south pole. No matter how many times you cut a magnet, each piece will still have both poles. Like magnetic poles repel one another. Opposite magnetic poles attract one another. A magnetic field surrounds a magnet. The field can exert magnetic force. The field will attract or repel other magnets that enter the field. Earth is like a giant magnet. Since Earth is like a magnet, a magnetic field surrounds the planet. Electrons in atoms have tiny magnetic fields. Sometimes the magnetic fields of many electrons in a material all line up the same way. An area where this occurs is called a magnetic domain. Materials with magnetic domains can be magnetized. This means they can be turned into magnets. A material that can be magnetized is called a ferromagnetic material. Iron is an example of a ferromagnetic material. A ferromagnetic material may remain magnetized briefly or for a long time, depending on the material. Both forces are due to charged particles. Recall that pushing and pulling between charged particles produces electric force. Moving charged particles produce magnetic force. This is why electrons in atoms have magnetic fields. Electrons are constantly moving around the nucleus. You can demonstrate this by passing a current through a straight wire. The current creates a magnetic field that circles around the wire. A coil of wire carrying current also produces a magnetic field. A coil of wire acts like a bar magnet. Each end of the coil is a pole. A coil of wire that produces a magnetic field is called a solenoid. An electromagnet is a solenoid with a rod of ferromagnetic material inside the coil. Current flowing through the coil magnetizes the rod. The rod and coil together produce a stronger magnet than the solenoid alone. In a solenoid or electromagnet, you can easily control the magnetic field by controlling the current. You can turn the magnet on and off by turning the current on and off. You can increase or decrease the current to make the magnetic field stronger or weaker. The strength of an electromagnet also depends on the number of loops of wire in the coil and the type of rod. Electromagnetic devices change electrical energy into mechanical energy. Such devices include galvanometers, electric motors, and loudspeakers. Galvanometers are used in cars.

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Magnets and Magnetic Fields Section Print Answer to Figure 1 The red magnet would float above the blue magnet.

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Magnets and magnetic fields answer key helpteachingcom, magnets and magnetic fields answer key 1 look at the magnet: two bar magnets are arranged as shown which diagram below best represents the magnetic field lines for the bar.

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