

Chapter 21 Magnetism

Section 21.2 Electromagnetism**(pages 636–639)**

This section describes how electricity and magnetism are related. Uses of solenoids and electromagnetic devices are discussed, and a description of how these devices work is presented.

Reading Strategy (page 636)

Identifying Main Ideas Copy the table on a separate sheet of paper. As you read, write the main idea of the text that follows each topic in the table. For more information on this Reading Strategy, see the **Reading and Study Skills** in the **Skills and Reference Handbook** at the end of your textbook.

Electromagnetism	
Topic	Main Idea
Electricity and magnetism	
Direction of magnetic fields	
Direction of electric currents	
Solenoids and electromagnets	
Electromagnetic devices	

1. In 1820 Hans Christian discovered a connection between electricity and _____.

Electricity and Magnetism (pages 636–639)

2. Electricity and magnetism are different aspects of a single force known as the _____ force.
3. Both aspects of the electromagnetic force are caused by _____.
4. Is the following sentence true or false? Moving electric charges create a magnetic field. _____
5. Is the following sentence true or false? The vibrating charges that produce an electromagnetic wave also create a magnetic field. _____
6. A charge moving in a magnetic field will be deflected in a direction that is _____ to both the magnetic field and to the velocity of the charge.

21 2 Electromagnetism Worksheet Answer

Rose Army



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Experiment! Oivind Andersson, 2012-08-13 Experiments are the most effective way to learn about the world By cleverly interfering with something to see how it reacts we are able to find out how it works In contrast to passive observation experimenting provides us with data relevant to our research and thus less time and effort is spent separating relevant from irrelevant information The art of experimentation is often learnt by doing so an intuitive understanding of the experimental method usually evolves gradually through years of trial and error This book speeds up the journey for the reader to becoming a proficient experimenter Organized in two parts this unique text begins by providing a general introduction to the scientific approach to experimentation It then describes the processes and tools required including the relevant statistical and experimental methods Towards the end of the book a methodology is presented which leads the reader through the three phases of an experiment Planning Data Collection and Analysis and Synthesis Experiment Provides an excellent introduction to the methodology and implementation of experimentation in the natural engineering and medical sciences Puts practical tools into scientific context Features a number of selected actual experiments to explore what are the key characteristics of good experiments Includes examples and exercises in every chapter This book focuses on general research skills such as adopting a scientific mindset learning how to plan meaningful experiments and understanding the fundamentals of collecting and interpreting data It is directed to anyone engaged in experiments especially Ph D and masters students just starting to create and develop their own experiments American Journal of Physics ,1982 Prentice Hall Physical Science Concepts in Action Program Planner National Chemistry Physics Earth Science ,2003-11 Prentice Hall Physical Science Concepts in Action helps students make the important connection between the science they read and what they experience every day Relevant content lively explorations and a wealth of hands on activities take students understanding of science beyond the page and into the world around them Now includes even more technology tools and activities to support differentiated instruction **Phy P&P Les Plans Blk Sch 99** Zitzewitz,1998-06 *Vocational Division Bulletin* ,1960 **Resources in Education** ,1990-10 **Resources in Education** ,1990 The Multimedia and CD-ROM Directory ,1998 *Technical Education and Industrial Training* ,1963 Forthcoming Books Rose Army,1996-06

Unveiling the Magic of Words: A Overview of "**21 2 Electromagnetism Worksheet Answer**"

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