



Electricity and Magnetism Study Guide

Along with the definitions from the vocabulary sheet, you will need to know the following information:

1. Conductors and insulators;
2. Basic circuits (open/closed and parallel/series);
3. Static electricity;
4. The ability of electrical energy to be changed into heat, light, and mechanical energy;
5. Simple electromagnets and magnetism; and
6. Historical contributions of Benjamin Franklin, Michael Faraday, and Thomas Edison.

Study Questions:

Static Electricity

1. What kind of charge does an object have if it has more negative particles than positive? (negative)
2. How is static electricity made? (by rubbing certain materials together)
3. What is an example of the discharge of static electricity in nature? (lightning)
4. What will happen when two objects, both with positive charges, come near each other? (They will repel.)

Current Electricity

5. How many paths does a series circuit have? (one)
6. What kind of circuit has more than one path? (parallel circuit)
7. In a series circuit, if one bulb burns out, will the other bulbs light? (no)
8. What kind of circuit allows the movement of electric energy? (closed circuit)
9. What kind of circuit stops/prevents the movement of electric energy? (open circuit)
10. What kinds of energy can electric energy be changed into? (heat, light, and mechanical energy)
11. Electrical energy moves through materials that are good _____. (conductors)
12. Name a good conductor. (metals such as copper)
13. Electrical energy does not move through materials that are called _____. (insulators)
14. Name a good insulator. (rubber, plastic, wood)

Magnets

15. Where is a bar magnet's pull the strongest? (at both poles)
16. What poles attract each other? (opposite)

Magnetism Study Guide 4th Grade

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Magnetism Study Guide 4th Grade:

A Parent's Guide to 4th Grade Ricki Winegardner, 2001 During your initial read of this resource you may find that some of the key points are not yet relevant to your child Imagine if you will reading the owner s manual to your car Initially you may peruse the manual finding that not all of the features or instructions are immediately helpful but as you drive the car for a period of time you may find yourself referring to the manual to find important information Use this book in the same manner Read initially to gain a baseline understanding of what to expect this year then pickup the book throughout the year when you are faced with new questions or difficulties By the end of the fourth grade you may have a book with dog eared pages highlighted passages and favorite nuggets of information *Science Curriculum Topic Study* Page Keeley, 2005-02-23 This indispensable staff development resource provides a systematic professional development strategy linking science standards and research to curriculum instruction and assessment **Resources in Education** ,1990 *Readers' Guide to Periodical Literature* ,1916 Author and subject index to a selected list of periodicals not included in the Readers guide and to composite books **Curriculum Development Library** ,1980 Which Degree Guide ,2001 **Helping Children Learn Science** Anne B. Hopman, 1966 **Report** International Clearinghouse on Science and Mathematics Curricular Developments, 1972 Harcourt Science: Physical science, [grade] 4, Units E and F, teacher's ed. [v. 18]. Life science, [grade] 5, Units A and B, teacher's ed ,2000 **ERIC Educational Documents Index** Educational Resources Information Center (U.S.), 1966 A subject author institution index which provides titles and accession numbers to the document and report literature that was announced in the monthly issues of Resources in education earlier called Research in education **ERIC Educational Documents Index, 1966-1969: Minor descriptors. Author index** CCM Information Corporation, 1970 *Films and Other Materials for Projection* Library of Congress, 1963 Directory of Distance Learning Opportunities Modoc Press, Inc., 2003-02-28 This book provides an overview of current K 12 courses and programs offered in the United States as correspondence study or via such electronic delivery systems as satellite cable or the Internet The Directory includes over 6 000 courses offered by 154 institutions or distance learning consortium members Following an introduction that describes existing practices and delivery methods the Directory offers three indexes Subject Index of Courses Offered by Level Course Level Index Geographic Index All information was supplied by the institutions Entries include current contact information a description of the institution and the courses offered grade level and admission information tuition and fee information enrollment periods delivery information equipment requirements credit and grading information library services and accreditation *Home and School Reading and Study Guides* Donna M. Lusardi, Rosemarie Kent, 2007 National Union Catalog ,1973 Includes entries for maps and atlases *Report of the International Clearinghouse on Science and Mathematics Curricular Developments* International Clearinghouse on Science and Mathematics Curricular Developments, 1972 **ERIC Educational Documents Index, 1966-69: Major descriptors** ,1970 *The Instructor*

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Magnetism Study Guide 4th Grade Book Review: Unveiling the Magic of Language

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