



# 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)

# Physics Electricity And Magnetism Study Guide

**John Gibson Winans**



## **Physics Electricity And Magnetism Study Guide:**

**Electricity and Magnetism** Gil Urquhart, Terry L. E. Henderson, 1998 Produced for unit SEP102 Physics 1B offered by the Faculty of Science and Technology's School of Engineering and Technology in Deakin University's Open Campus Program

Essential Trig-Based Physics Study Guide Workbook Chris McMullen, 2017-03-09 LEVEL This book covers the electricity and magnetism topics from trig based physics at the university level If instead you're looking for a calculus based physics book search for ISBN 1941691110 DESCRIPTION This combination of physics study guide and workbook focuses on essential problem solving skills and strategies Fully solved examples with explanations show you step by step how to solve standard university physics problems Handy charts tabulate the symbols what they mean and their SI units Problem solving strategies are broken down into steps and illustrated with examples Answers hints intermediate answers and explanations are provided for every practice exercise Terms and concepts which are essential to solving physics problems are defined and explained VOLUME This volume covers electricity and magnetism including electric fields Gauss's law circuits Kirchhoff's rules magnetic fields right hand rules the law of Biot Savart Ampere's law Lenz's law Faraday's law AC circuits an introduction to Maxwell's equations and more AUTHOR The author Dr Chris McMullen has over 20 years of experience teaching university physics in California Oklahoma Pennsylvania and Louisiana and has also taught physics to gifted high school students Dr McMullen currently teaches physics at Northwestern State University of Louisiana He has also published a half dozen papers on the collider phenomenology of superstring inspired large extra dimensions Chris McMullen earned his Ph D in particle physics from Oklahoma State University and his M S in physics from California State University Northridge Dr McMullen is well known for engaging physics students in challenging ideas through creativity breaking difficult problems down into manageable steps providing clear and convincing explanations to subtle issues his mastery of physics and strong background in mathematics helping students become more fluent in practical math skills SOLUTIONS The back of the book includes a detailed section of hints intermediate answers final answers and explanations to help you solve each problem one step at a time It's like having a physics tutor in the back of the book However if you would prefer complete solutions search for ISBN 1941691137 USES This study guide workbook can be used to learn how to solve fundamental problems in trig based physics find fully solved examples of standard physics problems develop fluency in physics via practice exercises that include answers hints and explanations quickly find the most essential physics terms concepts and formulas prepare for the AP physics exam review for standardized exams such as AP Physics or the MCAT CALCULATOR Every problem in this book can be solved without the aid of a calculator This is handy for students who will take a standardized exam like the MCAT Physics which doesn't allow a calculator It's also a handy skill to be able to estimate an answer without relying on a calculator

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