Hands-On Science Electricity and Magnets

By Sarah Angliss

Kingfisher. Paperback. Book Condition: New. Paperback. 32 pages. Dimensions: 9.8in. x 7.5in. x 0.3in. These giant books of projects and experiments take a hands-on approach to science concepts. Hundreds of simple and easy experiments explore various scientific principles behind natural phenomena like friction, centrifugal force, and the underlying laws of physics that help make machines work. These fun yet practical experiments make it easy for anyone to become a rocket scientist!

Help turn on light bulbs in young minds with this fun-filled exploration of electricity and magnetism. Arranged in a logical sequence to help young learners grasp how phenomena are related to one another. Topics like static electricity, currents, and magnetic domains have never been easier to tackle. With simple, step-by-step experiments that produce dramatic results, callouts with clear explanations of the scientific concept governing each experiment, scientific study has never been easier. This item ships from multiple locations. Your book may arrive from Roseburg, OR, La Vergne, TN. Paperback.

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Electricity and magnetism are related phenomena produced by the electromagnetic force. Learn more about their relationship, known as electromagnetism.

Dr. Helmenstine holds a Ph.D. in biomedical sciences and is a science writer, educator, and consultant. She has taught science courses at the high school, college, and graduate levels. Facebook

Physical science - Electricity and magnetism: Until the end of the 18th century, investigations in electricity and magnetism exhibited more of the hypothetical and spontaneous character of Newton’s Opticks than the axiomatic and somewhat forbidding tone of his Principia. In a series of painstaking memoirs, the French physicist Charles-Augustin de Coulomb, using a torsion balance that Henry Cavendish had used in England to measure the gravitational force, demonstrated the inverse-square relation for electrical and magnetic attractions and repulsions. Electricity and magnetism are closely related. Flowing electrons produce a magnetic field, and spinning magnets cause an electric current to flow. Electromagnetism is the interaction of these two important forces.

In the do-first model*, students are immersed in unit concepts by completing hands-on investigations that allow them to apply science and engineering practices and construct their own explanations of core ideas. Then students read texts, watch videos, and complete more investigations that help them confirm or refine their explanations. Vocabulary resources can be used at multiple points throughout the unit to develop and strengthen students’ fluency with the disciplinary language of science. 32 pages: 24 cm.

Electromagnetism may also refer to the use of an electromagnet.

The theoretical implications of electromagnetism, particularly the establishment of the speed of light based on properties of the "medium" of propagation (permeability and permittivity), led to the development of special relativity by Albert Einstein in 1905. Contents. 1 History of the theory.