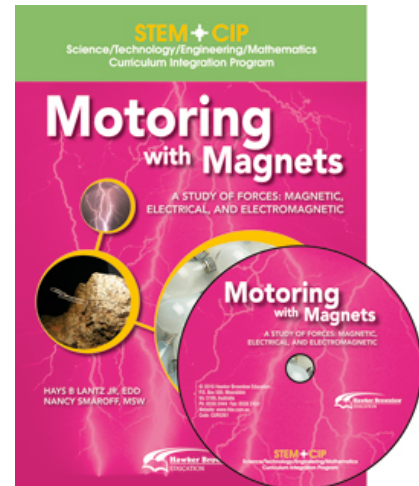


STEM-CIP: Motoring with Magnets (Complete Binder and CD)

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ISBN: 978 1 74239 527 2
Code: CUR5261
RRP: \$250.00
Format: Binder (180 pages), CD-ROM
Year Level: Years 7-10
Category: STEM-CIP
Subject: Science



Summary:

In this STEM (Science, Technology, Engineering and Mathematics) module, students learn how to plan and conduct well-designed experiments through a study of forces: magnetic, electrical and electromagnetic.

They explore electricity, magnetism, the Earth's magnetic field and the relationships between electricity and magnetism. Their ultimate task is to design an electromagnet powerful enough to assist in the clean up of a playground affected by an accidental spill of metal waste.

Students design, test, describe and evaluate (engineer) an electromagnet, as well as identifying variables that contribute to the strength of an electromagnet.

This binder and CD-ROM set holds the complete *Motoring with Magnets* unit – Teacher's Guide, containing background information, questions and answers, and classroom implementation instructions; Student Curriculum Module, the primary student text containing information, readings and instructions; and the Student Data and Response section, where students record and evaluate their work as they progress. The CD-ROM contains PowerPoint presentations that serve as visual enhancements to the activities, and a complete copy of the contents of the binder in PDF form for ease of reproduction.

Supporting Resources:

- *STEM-CIP: The Great Mixing Bowl (CUR5264)*
- *STEM-CIP: Riding on a Pendulum (CUR5263)*
- *STEM-CIP: 3-2-1 Lift Off (CUT5262)*
- *STEM-CIP: Chip Off the Old Block (CUR5260)*

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