Science and Maths in Motion: Active Learning Strategies for Integrating Science and Maths

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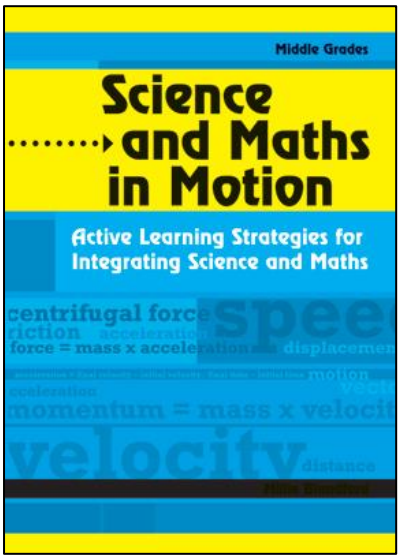
Year Level: Year 5, Year 6, Year 7, Year 8, Teachers and Administrators
Focus Area: Classroom Practice and Direct Instruction, Activities and Exercises
Key Learning Area: Science



Summary

Science instruction involves measurements, calculations and graphing. Without these components, it is difficult to fully understand the scope of the content and scientific investigations carried out. The Purpose of this book is to provide teachers with mathematical models to integrate with *Science and Maths in Motion* content. The activities in the book engage students in active learning and help them to understand the importance of the integration of maths with science.

Select and use the practice activities or investigations that best meet your students' individual needs. *Science and Maths in Motion* includes individual assignments, group activities and hands-on activities to help students

- Solve problems using relevant equations;
- Apply mathematical models in scientific investigations;
- Use scientific equipment appropriately;
- Construct, understand and explain tables, charts and graphs; and
- Understand the importance of maths and science integration.

Other Resources

- *Teaching the Scientific Method: Instructional Strategies to Boost Student Understanding* (INA2533)
- *You Want Me to Teach What? Sure-Fire Methods for Teaching Physical Science and Maths* (NST2489)
- *Teaching Mathematical Thinking: Tasks & Questions to Strengthen Practices and Processes* (TCP3370)
- *Making Every Science Lesson Count: Six Principles to Support Great Science Teaching* (CRH6517)