

STEM-CIP: 3-2-1 Lift Off

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CD-ROM
Age Group: Years 5–8
Learning Area: Science, Maths,
Technology
Category: Inquiry Learning;
Activities and Exercises



Summary:

The revolutionary new practice of STEM teaches the related disciplines of Science, Technology, Engineering and Mathematics as one unit, emphasising their close relationship, rather than separately as in the past. In this module, students study the science of how an effervescent tablet rocket is launched. They will assume the roles of scientists, mathematicians and engineers investigating Alka-Seltzer powered rockets, and use their findings from several investigations to build and test (engineer) a rocket that will achieve the highest launch height.

The task turns into a contest (engineering challenge) when students compete against other groups in the class and possible groups in other classes.

This binder and CD-ROM set holds the complete 3-2-1 *Lift Off* 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.

Related Resources:

- *STEM CIP: Motoring with Magnets: Complete Set* (CUR5261)
- *STEM CIP: Chip Off the Old Block: Complete Set* (CUR5260)
- *STEM CIP: Riding on a Pendulum: Complete Set* (CUR5263)
- *STEM CIP: The Great Mixing Bowl: Complete Set* (CUR5264)

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