

Bottle Rockets

Subjects: • Science • Engineering • Math

Time: 60-120 minutes

• Skills: • Teamwork • Problem-solving • Basic Physics Principles • Construction

Approx. Cost: Low

Lesson # 10

Learning Objective/Goal:

- Students will learn how rockets work using simple principles.
- Students will see how forces like push, pull, and gravity make the rocket move.
- Students will create their own bottle rockets using simple materials.

Materials Needed:

- Empty 2L plastic bottles (one per group)
- Water
- Air pump with a nozzle that fits the bottle opening
- Fin and nose cone materials (cardboard, plastic, duct tape)

NGSS Standards:

- 5-5-ETS1-1
- 5-5-ETS1-2
- 5-5-ETS1-3 (Engineering Design)

ISTE Standards for Students:

- 4a - Innovative Designer
- 5b - Computational Thinker

Background:

Launching rockets using 2L bottles is a fun and educational activity that demonstrates the principles of physics, particularly Newton's Laws of Motion. By building and launching rockets, students can explore concepts such as force, mass, gravity, and aerodynamics in a hands-on and engaging way.

Activity:

Introduction:

1. Welcome and Explanation:

- Introduce the activity and explain the basic principles of rocketry, including Newton's Third Law: "For every action, there is an equal and opposite reaction."
- Discuss how the design of the rocket (fins, nose cone) affects its flight.

Liter Bottle Rocket Lesson Plan

Ed Sobey



Liter Bottle Rocket Lesson Plan:

Inquiry and Problem Solving ,1999 **ENC Focus** ,2000 *Teaching Fundamental Motor Skills* A. Vonnie Colvin,Nancy J. Egner Markos,Pamela J. Walker,2016-03-22 A lot of books focus on which motor skills should be taught to elementary school children but few focus on how to teach those skills *Teaching Fundamental Motor Skills* Third Edition steps into that gap and provides expert instruction on both serving as a foundation for successful movement experiences for children The book will help you guide your students in mastering the critical elements of 8 locomotor and 17 manipulative skills The approach offers a perfect balance between sound pedagogy and fun activities that will engage your students and keep them learning Skill Chapter Organization The authors have organized the content in a way that makes it easy to locate and implement a multitude of activities that will help children grasp the fundamental skills Each skill chapter includes the following An introduction which includes a suggested age at which the skill or a portion of the skill should be mastered and where appropriate where the skill aligns with the National Standards and Grade Level Outcomes Four to six critical elements that are necessary for the skill to be correctly performed Cue words to help students remember each critical element Partner skill check assessments that help partners evaluate others progress Success Builders to help students correct problems Activities for practicing the entire skill at once Troubleshooting charts for identifying problem areas Lesson plans that guide you through the instructional sequence New to This Edition The content is directly tied to the SHAPE America National Standards and Grade Level Outcomes and is endorsed by SHAPE America which is including it in their lineup of resources for physical educators A web resource contains reproducible forms and checklists This material is easily accessible and printable from mobile devices And you ll find the fillable PDFs to be a great aid for your record keeping Each skill is animated on the web resource These animations will help children better understand the critical elements of each skill and identify skill techniques that need to be corrected All the content is now in print In the previous edition much of the content was available only on a CD ROM Additional Features *Teaching Fundamental Motor Skills* retains many of the features from its earlier editions that have made the book a favorite among physical educators outstanding illustrations cues for you to use in teaching the skills a troubleshooting chart for spotting and correcting common errors for most skills assessment sheets lesson plans activities and a wealth of supplementary material Maximizing Your Time and Your Students Experience The authors provide tried and true management and instructional tips to help you prepare your lessons and maximize your teaching time *Teaching Fundamental Motor Skills* will help you capitalize on the natural excitement and eagerness that most elementary age children bring to physical education The book provides you with motivating methods to keep the children excited as they learn fundamental motor skills and movement patterns through sound sequential high quality instruction that will meet the needs of all children regardless of skill level **Lesson Imaging in Math and Science** Michelle Stephan,David Pugalee,Julie Cline,Chris Cline,2016-10-26 From respected voices in STEM education comes an innovative

lesson planning approach to help turn students into problem solvers lesson imaging In this approach teachers anticipate how chosen activities will unfold in real time what solutions questions and misconceptions students might have and how teachers can promote deeper reasoning When lesson imaging occurs before instruction students achieve lesson objectives more naturally and powerfully A successful STEM unit attends to activities questions technology and passions It also entails a careful detailed image of how each activity will play out in the classroom Lesson Imaging in Math and Science presents teachers with A process of thinking through the structure and implementation of a lesson A pathway to discovering ways to elicit student thinking and foster collaboration An opportunity to become adept at techniques to avoid shutting down the discussion either by prematurely giving or acknowledging the right answer or by casting aside a wrong answer Packed with classroom examples lesson imaging templates and tips on how to start the process this book is sure to help teachers anticipate students ideas and questions and stimulate deeper learning in science math engineering and technology **The Technology Teacher** ,1995 **Rocket-powered Science** Ed Sobey,2005-11 Rocket science is as cool as science gets and your students get to design build and test rockets themselves Their designs Their innovations Not students anymore they are rocket scientists **Science Education International** ,1991 *Inquiry* ,2001 **Journal of Engineering Education** ,1993 Educational Materials NASA Lewis Teacher Resource Center,1992

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