

Water Bottle Rocket Lesson

Lesson Objectives:

What students will KNOW:

- The location of an object can be described as closer to, nearer to or farther from.
- Objects can move in many different ways.
- When people play games, use toys or go on rides, movement can be observed and described.

What students will UNDERSTAND (with Essential Questions):

- Moving an object over and change position requires a force.
 - o 3a. What is a force?
 - o 3b. How can objects be moved?
 - o 3c. How do objects change position?
- Force, motion and energy can be observed through models of transportation.
 - o 4a. How can models of transportation show force and motion?
 - o 4b. What types of energy can be observed in models of transportation?

Materials:

- 1 – 2 liter bottle (per student)
- 1 – Cone template on cardstock [attached] (per student)
- 1 – Fin template on cardstock [attached] (per student)
- 1 – Data Sheet [attached] (per student)
- 1 – My Flying Invention Sheet [attached] (per student)

Water

Rubber Cork (Hardware Store) (Make sure it's the size that fits in a 2 liter bottle)

Air Pump Needle

Air Pump (Pump – Foot or hand)

Launch Pad

What students will DO (TASKS):

SC.1.SCI.

Describe the change in the location of an object, such as closer to, nearer to, and farther from

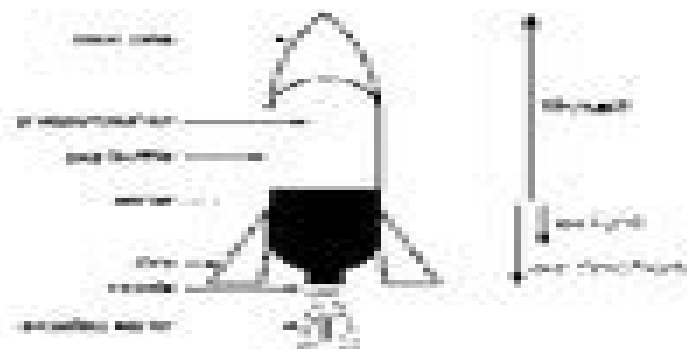
SC.1.MO.

Demonstrate and record the ways that objects can move, such as in a straight line, zig zag, up and down, back and forth, round and round, and fast and slow

ENG. QUESTIONS:

Can you design an object with the ability to go farther and/or faster than your rocket?

Create/Design a model and describe how your invention would work using force, motion, and energy.



2 Liter Bottle Rocket Lesson Plan

WJ Hussar



2 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 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 *The Technology Teacher* ,1995 *The Sourcebook for Teaching Science, Grades 6-12* Norman Herr,2008-08-11 The Sourcebook for Teaching Science is a unique comprehensive resource designed to give middle and high school science teachers a wealth of information that will enhance any science curriculum Filled with innovative tools dynamic activities and practical lesson plans that are grounded in theory research and national standards the book offers both new and experienced science teachers powerful strategies and original ideas that will enhance the teaching of physics chemistry biology and the earth and space sciences **101 Swimming Lesson Plans For Swimming Teachers** Mark Young,2024-05-07 Careful and detailed planning is essential for delivering practical results based swimming lessons This book takes the hard work out of lesson planning for swimming teachers by providing 101 swimming lesson plans covering all aspects of swimming Discover swimming lesson plans for beginners that include every lesson from first entering the pool and building confidence to swimming in deep water In addition swimming lesson plans written explicitly for adults cover their every need from gaining confidence to learning basic strokes Ensure progress with sequenced lesson plans for each part of front crawl backstroke breaststroke and butterfly aimed at beginner intermediate and advanced swimmers Each lesson plan also has an assessment grid so that you can monitor and measure the progress of each of your swimmers quickly and easily These pre made 30 minute swimming lesson plans are ready to go leaving you to focus on the individuals in your classes and fine tune your practice as a successful swimming teacher 101 Swimming lesson plans for swimming teachers that make a difference Energy and Water Development Appropriations for 2004: Department of Energy fiscal year 2004 budget justifications United States. Congress. House. Committee on Appropriations. Subcommittee on Energy and Water Development,2003 **Energy and water development appropriations for 2004** United States. Congress. House. Committee on Appropriations. Subcommittee on Energy and Water Development,2003 **Exploring meteorite mysteries a teacher's guide with activities for earth and space sciences.** ,

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