

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.

Bottle Rocket Lesson Unit Plan Elementary

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Bottle Rocket Lesson Unit Plan Elementary:

Unveiling the Magic of Words: A Overview of "**Bottle Rocket Lesson Unit Plan Elementary**"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Bottle Rocket Lesson Unit Plan Elementary**," a mesmerizing literary masterpiece penned by way of a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book is central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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