

High-Flying Rockets

(3-week course)

Unit 1 focuses on Water Rockets; requires 5-1/2 to 9-1/2 class periods.

Unit 2 focuses on Solid-Fuel Rockets; requires 4-1/2 to 7-1/2 class periods.

Note: The two units together require 10 to 16 class periods.

Unit 1 – Water Rockets

Teacher

Students

1 Class

Pretests from *GS Guides* (optional)

- Photocopy the assessments from page 135 of the *Water Rockets GS Guide* and page 107 from the *Solid-Fuel Rockets GS Guide* and distribute to students.
- Take assessments.

Reading Assignment

- Photocopy, distribute, and assign students to read “The History of Rocketry” from *Solid-Fuel Rockets GS Guide* (pages 98-99).
- Read “The History of Rocketry” from *Solid-Fuel Rockets GS Guide* (pages 98-99).
- Lead a discussion about the information.
- Discuss the chapter in class.

Teacher

Students

1/2 Class

Basic Construction Instructions from *Dr. Zoon Stratoblaster Video*

- Have class watch the *Dr. Zoon Stratoblaster Video*.
- Watch the *Dr. Zoon Stratoblaster Video*.

Teacher

Students

1 to 2 Classes

Fuel Pressure Testing from *Water Rockets GS Guide* (students work in teams of 2)

- Read the Teacher and Student Procedures from Fuel Pressure Testing (pages 17-25).
- Gather all materials necessary before the class period.
- Photocopy the Student Procedure, “Fuel Pressures I Data Sheet,” and “Lab Report Template. Distribute to each student.
- Have students follow directions in the Student Procedure and complete the data sheet.
- Follow the instructions to complete the activity and the data sheet.