

Air Rockets

(3-week course)

Unit 1 focuses on Straw Rockets; requires 8.5 to 12.5 class periods.

Unit 2 focuses on AP Rockets; requires 4.5 to 6.5 class periods.

Note: The two units together require 13 to 19 class periods.

Unit 1 – Straw Structures

Teacher

Students

1 Class

Pretest from *Straw Rockets Teacher's Guide* (optional)

- Photocopy the assessment from page 86 of *Straw Rockets Teachers Guide* and distribute to students.
- Take the assessment.

Reading Assignment

- Assign students to read pages 75-76 from *Science and Mathematics for Technology*.
- Read pages 75-76 from *Science and Mathematics for Technology*.
- Lead a discussion about the information.
- Discuss the chapter in class.

Teacher

Students

1 Class

Basic Construction Instructions from *Dr. Zoon Straw Rockets Video*

- Have class watch the *Dr. Zoon Straw Rockets Video*.
- Watch the *Dr. Zoon Straw Rockets Video*.

Teacher

Students

1 to 2 Classes

Varying Rocket Length from *Straw Rockets Teacher's Guide* (students work in teams of 2)

- Read the Teacher and Student Procedures from "Varying Rocket Length" (pages 13-19).
- Gather all materials necessary before the class period.
- Photocopy the Student Procedure and "Varying Rocket Length Data Sheet." Distribute to each student.
- Have students follow directions in the Student Procedure to complete the activity and data sheet.
- Follow the instructions to complete the activity and data sheet.