

Parachute Lesson Plan Part 2 (Bryte Elementary – 5th Grade)

Content Standards that are the target of student learning:

CA-California K-12 Academic Content Standards

Subject: Science

Grade: 5th

Area: Investigation and Experimentation

Standard g: Record data by using appropriate graphic representations (including charts, graphs, and labeled diagrams) and make inferences based on those data.

Learning Objectives:

- Students will be able to build and observe a parachute.
- The students will be able to define and develop a testable question based on the observations of the flight of the parachute.
- Students will be able to draw conclusions from scientific evidence and indicate whether further information is needed to support a specific conclusion.
- Key Words: testable question, prototype, variable, scientific investigation

Instructional Procedures

- Review what we did two weeks ago.
- Review possible changes that can be done to the parachute. Write down the students' responses on the board. Show a model of the prototype to the children as a reminder.
- Tell students that we will change the type of material for the parachute but keep the same measurements, for example, construction paper, tissue paper, foil, or wax paper.
- Provide the students with information on how to build the prototype both verbally and in writing.
- Divide the students into the same groups from two weeks ago.
- Each group will make a parachute again with the new material.
- Have the students' make a prediction on what they expect will happen when they drop the parachute.
- The same person from two weeks ago will drop the parachute.
- Have the students write the data of how long the parachute flew and how far from the target the parachute landed onto a worksheet.
- Assess the students individually and in groups through verbal communication and worksheet:

Each group will complete the following on a poster board and on their worksheet:

- (i) a completed data table
- (ii) a bar graph of material type v.s. time.

-Each group will give a presentation about their information they collected.

Formal and Informal Assessment:

Informal:

Verbally ask the students-

What is a testable question?

What changes can be made to a parachute?

Formal: Worksheets

Differentiated Instruction/Accommodation Strategies

Visuals-model of prototype children made and example of new parachute from Physics 107

Verbal and written instruction on how to build the parachute

Use large print for the worksheets and the white board

Modified Speech- use slower speech rate, speak clearly and enunciate

Extra time to think and work

Group and Individual work

Materials (8 students):

Colored Construction Paper (1)

Foil

Wax paper

Tissue Paper

String

Payload (2)

Scissors (4)

Tape (2)

Ruler (4)

Stopwatch (2)

Worksheets (8)

Resources:

Physics Lesson “Scientific Inquiry: Investigating Parachutes”