



Rio Grande Educational Collaborative

Before and After School Program Lesson Plan

TITLE OF LESSON: Egg Drop

SITE NAME:

NAME(S) OF INSTRUCTOR:

CREDIT (website used/name of author): Kevin Saavedra

COMMON CORE STANDARDS: SL.K.3, SL.3.1.D, SL.5.1.C

DATE:

CLASS SIZE:

DURATION OF LESSON:

LEARNING OBJECTIVES:

Students will understand the following:

- Compare the effects of different materials, shapes, and forces on the strength and stability of their built structures
- Describe and demonstrate construction techniques using given materials

ACTIVITY:

Instructional Sequence:

(Step by step instructions, should another instructor pick up and teach the lesson successfully)

1. Students may work individually or in groups of up to 3.
2. Tell students that they will be designing a package that will keep an egg safe, even if they dropped it from 10 feet in the air.
3. Present students a variety of materials they could use to create a protective container for their egg (see Lesson Materials).
4. A part of the egg that's at least the size of the quarter has to be visible.
5. Students can choose the color of their yarn and piper cleaners, have students brainstorm what they will do to keep their eggs safe while you're distributing yarn.
6. Inform them that they will have 1 hour to complete their design. If they would like to work in teams, they can, but they will only be able to use a single set of materials, not two sets.
7. After the hour is complete, the eggs will be dropped during three rounds from varying heights. The egg must leak for it to be taken out of the competition.
8. A brief discussion will take place during the drop and cleanup. Prompt students with questions like "Why do you think the egg broke? What would you do differently next time? Why didn't this group's egg crack?"

MATERIALS:

The following materials or equipment needed for this lesson:

(Include special equipment request)

(Per group, modify as you see fit)

- Masking tape (1 foot)
- Pipe cleaners (2)
- Straws (6)
- Yarn (1 foot)
- Plain white printer paper (3 sheets)
- Scissors (1 pair)
- Eggs (1)
- Marshmallows (3)
- Cotton balls (4)
- Large rubber bands (2)
- Toothpicks (4)

SIGNATURE: _____ **DATE:** _____

SITE SUPERVISOR'S SIGNATURE: _____ **DATE:** _____

INSTRUCTOR'S REFLECTION:

Reflection on the lesson given:

1. How many students participated in the lesson given? _____
2. Name(s) of instructors participated. _____
3. How long did your lesson take? (Amount of time) _____
4. How did the students feel about the lesson? _____
5. Did the students like the lesson? _____
6. What part of the lesson did the students like? _____

7. What part of the lesson did the students not like? _____

8. Were the students interested in the topic of the lesson? _____
9. Was the content of the lesson difficult for the students? _____
10. What could you have changed to make the lesson interesting? _____

11. Did you have any trouble getting your lesson together? (Idea & Materials) _____

12. How do you rate your lesson? (1-10) Why? _____

SITE SUPERVISOR'S REFLECTION:

Reflection on the instructor's lesson:

1. How many students participated in lesson? _____
2. How many instructors participated in lesson? _____
3. Did the students enjoy the lesson? _____
4. What part did the students enjoy? _____

5. What part did the students NOT enjoy? _____

6. What could have been changed to make the lesson interesting? _____

7. Was the content of this lesson difficult for students to understand? Why? _____

8. What part of STEAM or literacy was used? (Science, Technology, Engineering, Art, Mathematics or Literacy)

9. Comments: _____

