



Rio Grande Educational Collaborative Before and After School Program Lesson Plan

TITLE OF LESSON: Explore Sound With Water

DATE:

SITE NAME:

CLASS SIZE:

NAME(S) OF INSTRUCTOR:

DURATION OF LESSON:

CREDIT (website used): <https://artfulparent.com/explore-sound-with-water-glasses/>

COMMON CORE STANDARDS: [CCSS.ELA-Literacy.SL.K.3](#), [CCSS.Math.Content.K.MD.A.2](#), [CCSS.Math.Content.1.MD.C.4](#)

LEARNING OBJECTIVES:

Students will understand the following:

- The basics of how volume within a container can affect pitch
- How to start hypothesizing, observing, and experimenting

ACTIVITY:

Instructional Sequence:

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

1. Set out a set of glassware (be careful since it's necessary, plastic cups just don't work as well). They can be identical or different shapes and sizes—it doesn't matter.
2. Fill these glasses with water and add different colors of food coloring to each one to help distinguish them.
3. Have students *tap* the glasses with spoons or other silverware. Ask them what they observe. Ask them what happens if they add more water or take away water. Let them explore and test answer these questions for themselves.

Older students might want an explanation:

When a glass has little or no water in it, it has lots of air in it. Hitting this glass makes a higher pitch sound than the glass with lots of water. This is because the empty glass only has air around it, so the glass vibrates quickly when it is hit, causing the high pitch sound.

MATERIALS:

The following materials or equipment needed for this lesson:

(Include special equipment request)

- Water
- Glass cups
- Pitcher to serve water
- Food coloring
- Silverware

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: _____

