Rio Grande Educational Collaborative
Before and After School Program Lesson Plan

TITLE OF LESSON: Shiny Penny Science **DATE:**
SITE NAME: **CLASS SIZE:**
NAME(S) OF INSTRUCTOR: **DURATION OF LESSON:**
CREDIT (website used): https://tinyurl.com/56ey39a7
COMMON CORE STANDARDS: CCSS.ELA-Literacy.SL.4.1, CCSS.ELA-Literacy.SL.4.1.c

LEARNING OBJECTIVES:

Students will understand the following:

- How an acid interacts with minerals like salt and other compounds like the iron oxide of a penny

ACTIVITY:

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

1. Add 2 tsp. salt and ¼ cup vinegar to a cup and stir with a plastic spoon until the salt is dissolved.
2. Add tarnished pennies to the salt and vinegar solution. Keep at least one out to compare.
3. Let the pennies sit in the solution for a few minutes then take them out. Rinse them with water and wipe them off.

Explanation: Older pennies become dull when they are covered in copper oxide. Copper oxide is formed when the copper from the pennies reactions with the oxygen in the air. Vinegar is an acid and reacts with the salt to remove the copper oxide.

MATERIALS:

The following materials or equipment needed for this lesson:
(Include special equipment request)

- Measuring cups
- Plastic spoons
- Dirt pennies
- Glass cup or bowl

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: _____
   _____
   _____