



# Rio Grande Educational Collaborative

## Before and After School Program Lesson Plan

**TITLE OF LESSON:** Dinosaur Skull Sculpture

**DATE:**

**SITE NAME:**

**CLASS SIZE:**

**NAME(S) OF INSTRUCTOR:**

**DURATION OF LESSON:**

**CREDIT (website used/name of author):**

<http://tumblehomelearning.com/how-to-make-a-big-dinosaur-skull-for-very-little-money-free-instructions/>

**COMMON CORE STANDARDS:** CCSS.ELA-LITERACY.SL.1.1, CCSS.ELA-LITERACY.SL.3.1, CCSS.ELA-LITERACY.SL.5.1.B

### LEARNING OBJECTIVES:

**Students will understand the following:**

- How to apply learned sculpting skills to a more complex paper-mache project

### ACTIVITY:

#### Instructional Sequence:

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

#### Work through the process alongside students:

-Take the thick armature wire and make a general outline of the dinosaur skull, and use the thin armature wire to add supports. At this stage, you don't have to be terribly precise, but it should look roughly like the pictures in the source website. Be sure to keep the jaw connected to the top part of the skull, with at least 2 connection points, with several loops to make sure it's extra strong.

-Take wire mesh, cut with scissors where needed, and make 3D pieces over certain parts of the wire armature, like the diagram and pictures on the website. It is important to make a nice thick jaw, and to cover the snout.

-Mix water and flour or equal parts water and glue. Dip your newspaper scraps in this and start applying paper mache. One or two layers will work just fine. Let the paper dry if needed, and cut off excess paper with your scissors.

-Plaster of paris. Mix plaster of paris, with cold water in disposable cups and use a stick or other wooden utensil to mix it together. Add more plaster until it becomes the consistency of more than gravy but less than toothpaste. Work fast because plaster dries fast. You'll probably need many disposable cups and many sticks (maybe 10 or more), because they get caked with old plaster very easily. Add generous layers of plaster over every single piece of paper, and fill in all cracks and holes (except for the ones you need, like nostrils, etc.).

-When you feel like the plastering is reasonably done, including some interior parts, then you can sand down some areas with coarse sandpaper to look like bone grain.

#### At the same time:

-Prepare a group of students to make the head's teeth with clay. Create a model beforehand and work with each student to perfect the shape. Have them create five teeth apiece.

-Encourage students to make dinosaur claws as well. Pull up a picture as a reference, or create a model like before.

**MATERIALS:**

**The following materials or equipment needed for this lesson:**

(Include special equipment request)

- Armature Wire
- Wire Mesh
- Newspaper
- Glue/flour
- Plaster of paris
- Air-dry/paper clay
- Scissors
- Super glue
- Sandpaper

**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: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_