Mapping and Excavating a Jell-O Mold

Subject and

Math and Social Studies, 5th

Grade

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Mary Rodriguez (2023)

Time duration One or two 45-minute class period

Overview Students will learn how archeologists excavate sites by

doing their own excavation on a Jell-O mold.

TEKS Mathematics, Grade 5

(1A), apply mathematics to problems arising in everyday life, society, and the workplace

(1C), select tools, including real objects, manipulatives, paper and pencil, and technology as appropriate, and

techniques, including mental math, estimation, and number sense as appropriate, to solve problems

(1D), communicate mathematical ideas, reasoning, and their implications using multiple representations, including symbols, diagrams, graphs, and language as

appropriate

Social Studies, Grade 5

(5.23A), differentiate between, locate, and use valid primary and secondary sources such as technology; interviews; biographies; oral, print, and visual material;



documents and artifacts to acquire information about the United States

(5.24A), apply mapping elements, including grid systems, legends, symbols, scales, and compass roses, to create and interpret maps

Materials

- 3 sheets of grid handout for each group (included)
- "An Imaginary Archeological Site" handout (optional, included)
- 1 clear bowl of Jell-O for each group with three different color layers with fruit or other objects embedded inside
- Extra bowls or buckets
- Spoons

An idea for fruit is to have fresh grapes on the top layer, older grapes in the middle layer, and raisins in the bottom layer to show that older objects are often found deeper in the ground.

Activities and procedures

Step 1: Teacher will prepare the three-layer Jell-O before the class

Step 2: Split students into groups of three, 1 recorder, 1 person to excavate, and 1 mapper.

Step 3: Hand out 1 sheets of the grid paper to each group.

Step 4: Have students map the three layers of Jell-O. Draw in each grape, raisin, or other object on the grid

paper layer by layer. They will need to carefully remove each layer after they have finished mapping it so that they can access the next layer.

Step 5: Have students remove the items (grapes, etc.) from each layer of Jell-O and write down their findings at the bottom of the grid paper in the wonder and notice columns.

Step 6: Have each group share a portion of its findings with the class.

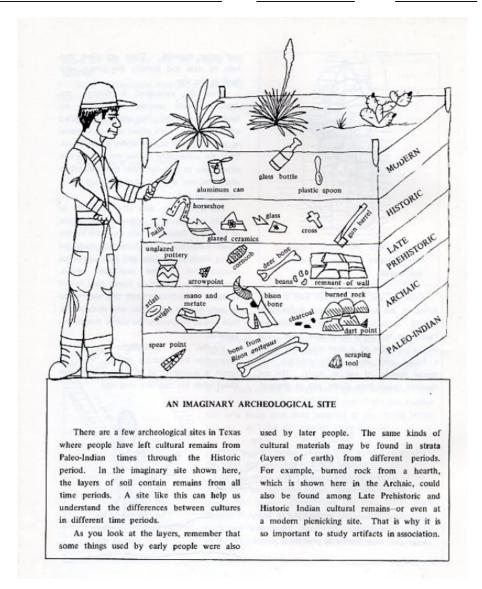
Extension Activities

Have students read the "An Imaginary Archeological Site" handout and answer the questions on it.

Assessment

Completed "A Grid of the Artifacts" handout.

Names		D	ate	Class	
Instructions: Draw each object on the grid below layer by layer. Fill in the table with things that					
you wonder and notice as you excavate.					
A Grid of the Artifacts					
					1
					1
					1
					J
What do you notice?			What do you wonder?		



(Image courtesy of the Office of the State Archeologist, Texas Historical Commission, Living with the Texas Past Series, No.1, 1983; Robert J. Mallouf, Series Editor.)

- 1. Why are the oldest artifacts at the bottom of the archeological site?
- 2. If future archeologists excavated your schoolyard, name 5 things they might find.