

TARWATER ELEMENTARY SCHOOL STEM LAB

Activity ID: F-2

Activity Name: Cookie Excavation

MATERIALS:

Materials Provided in Bin:

Item:	Quantity:	Notes:
Lesson Plan	1	
Paper towels	1 roll	
Toothpicks	1 box	
Optional: Cookie Excavation Grid Worksheet	1 copy in bin	Please see Materials Teacher/Parents section

Materials in STEM lab or Classroom (Common Items):

Item:	Quantity:	Notes:
None		

Materials Teacher/Parents Need to Provide:

Item:	Quantity:	Notes:
Cookies	Per person	
Cookie Excavation Worksheet Grid	Per person	

WHAT ARE WE DOING?

Cookie Excavation

VIDEOS / LINKS:

none

SAFETY NOTES:

- Obtain permission from a responsible adult before giving any child a cookie.
- Offer oatmeal raisin cookies as an alternative to chocolate.
- Use only store-bought cookies and make sure they are relatively soft (e.g. Keebler Chips Deluxe Soft 'n Chewy)
- Cut out the list of ingredients on the cookie package and post it prominently.

SCIENCE TERMS:

Excavation means removing soil to discover tools and other things used by people who lived a long time ago.

Archaeologists are both scientists and detectives. They use scientific methods like excavation to discover clues that help them solve the mysteries of the past.

Artifacts are things archaeologists find.

STEPS:

Step 1. Place your cookie in the middle of Grid A.

Step 2. Note the coordinates of the top, bottom, left side, and right side of the cookie. Use them to sketch the perimeter of the cookie on Grid B.

Step 3. Before excavating, note the coordinates of any chocolate chips you can see. Use them to sketch the chips onto Grid B.

Step 4. Use a toothpick to excavate your cookie. As you find chocolate chips, note their coordinates and sketch them onto Grid B.

QUESTIONS TO ASK STUDENTS:

1. Did some areas of the cookie have more chocolate chips/raisins than others?
2. What was the biggest challenge as you were excavating?
3. What would you have done differently?
4. What did you learn about the excavating process?

CLEAN-UP:

Into the Bin = Lesson, extra paper towels, extra toothpicks, copy of cookie excavation grid.

Trash/Recycle = all items that have been used.

**IF RUNNING OUT OF A SUPPLY IN THE BIN, PLEASE
CONTACT LAURIE JONES IN THE OFFICE (X4307)**

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