

TARWATER ELEMENTARY SCHOOL STEM LAB

Activity ID: J-3

Activity Name: Build the Best Box

MATERIALS:

Materials Provided in Bin:

Item:	Quantity:	Notes:
Lesson Plan	1	
Rice or beans	1 bag	
Digital scale	1	

Materials In STEM lab or Classroom (Common Items):

Item:	Quantity:	Notes:
Sheet of paper	1	
Tape	1	
Ruler	1	
Scissors	1	

Materials Teacher/Parents Need to Provide:

Item:	Quantity:	Notes:
None		

WHAT ARE WE DOING?

In groups, we are making a box using a sheet of paper, filling it with beans and comparing the volume.

VIDEOS / LINKS:

(add if any)

SAFETY NOTES:

Be careful with the scissors, they're not a toys.

SCIENCE TERMS:

- Volume

STEPS:

1. Pick up all the materials you need to do the lab.
2. Build the box with the sheet of paper and the tape.
(If needed, you can cut the paper)
3. Fill the box with the beans. (It helps to pour the beans once the box is sitting in the scale)
4. Compare with your classmates and teacher the result you got.

QUESTIONS TO ASK STUDENTS:

- What is volume?
- How do you think the beans will effect of the volume of the box itself?
- How do you think the shape of the box influences the amount of beans?

CLEAN-UP

Into the Bin = Return all the material you took from the bin back in the bin.

Back to Lab/Classroom= Return the tape, scissors and the ruler back to where you found them.

Trash/Recycle= Clean up the little pieces of paper in your table.

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