

# Task: Waterproofing Containers

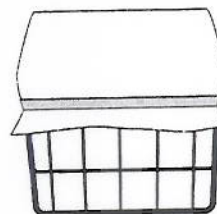
Name: \_\_\_\_\_

Date: \_\_\_\_\_

1. A teacher challenged her class to construct a lining for a strawberry basket that will be able to hold 250 ml of water overnight without leaking. Here are some of the ideas the class came up with.



a. plastic wrap



b. wax paper



c. paper towel



d. cotton fabric

Which one of the above would hold 250 ml of water overnight the best?

\_\_\_\_\_

Why? Explain your answer.

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\_\_\_\_\_

\_\_\_\_\_

2. During art class, Vanita colored a picture on construction paper with wax crayon. She spilled some juice on it. The juice beaded on the top of the paper and she was able to wipe it up. It did not leave a stain. Vanita was puzzled because she knew that construction paper absorbs water. Explain why it didn't absorb the juice this time.

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3. Vanita and her classmates learned how to fold paper into cups. They made cups out of wax paper, tin foil, newspaper, and a napkin. Then they filled them up with water and left them on the table for their teacher to see. The next day when she came to look, there was water all over the table!

Which cup was still full? Explain your answer.

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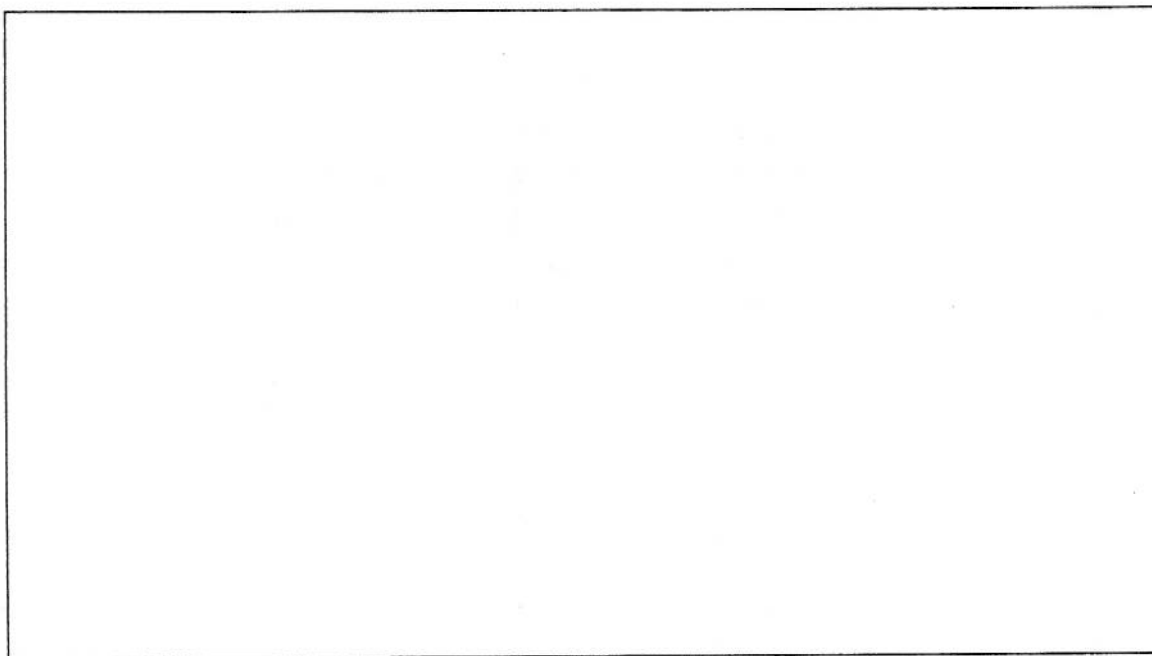
4. Vanita's class went on a picnic. They wanted to keep their tuna sandwiches fresh so they got a cooler of ice. What would be the best materials to wrap their sandwiches in? Why?

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5. How should they pack their sandwiches so they remain fresh and dry? Draw how you would pack the sandwiches.



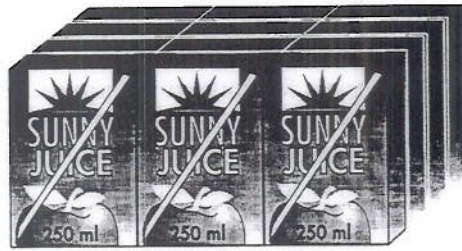
Explain how you would pack the sandwiches.

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6. Vanita knows that cardboard containers eventually leak if filled with water. She notices that juice often comes in cardboard containers. Why don't these juice containers leak? Explain.



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