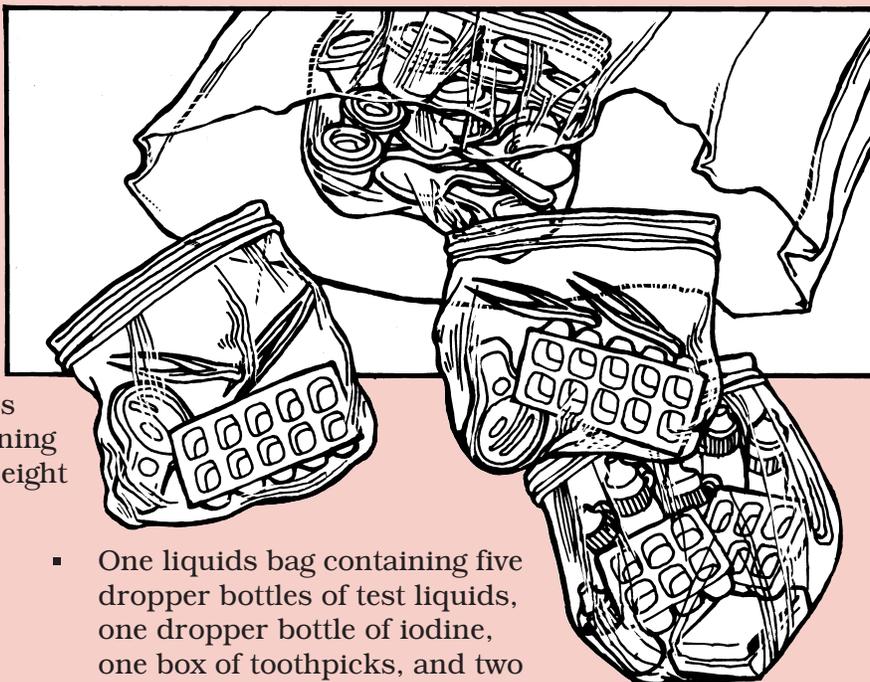


Student Instructions for Testing Foods for Starch

1. Answer pre-lab questions 1 and 2 on **Record Sheet 4-A**.
2. Remove the following test materials from the storage bag.
 - Two lab bags, each containing a ten-section test tray, one hand lens, and two forceps
 - One food bag containing eight food cups and eight small spoons



- One liquids bag containing five dropper bottles of test liquids, one dropper bottle of iodine, one box of toothpicks, and two six-section test trays

3. If your dropper bottle of water is nearly empty, add some to it.
4. Put two drops of iodine in the unnumbered section in the six-section test tray. This is your control. Observe the iodine by itself, and answer pre-lab question 3 on **Record Sheet 4-A**.



5. Some foods need preparation before testing. Touching the test food with your fingers may contaminate the foods. Use your forceps to place a piece of beef stick and small portions of dried apple and doughnut into their matching numbered sections of the test tray. Then, also with forceps, do the following:
 - Tear the apple into small pieces.
 - Pull apart the piece of beef stick.
 - Flatten the piece of doughnut.

6. Now place one spoonful of each of the other foods into your test tray. To keep foods from mixing together, make sure the number of each spoon matches the number of the food and the test tray section you place it in.



7. Now write the names of your two new test foods in the first column of your table.

8. Add two drops of water to the food in section 1 of the tray (rice).

9. Stir the rice and water well with a toothpick.



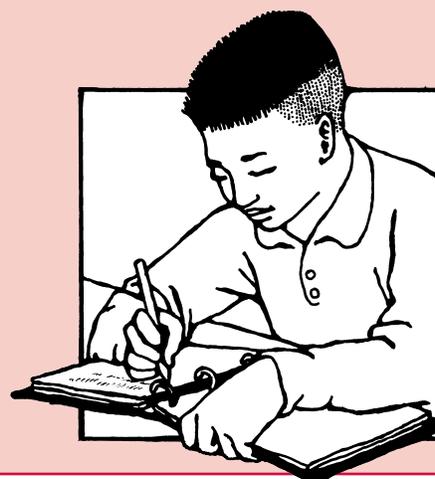
10. Repeat steps 8 and 9 with the other nine foods. (Be sure to use a different toothpick for each food.)

11. Add two drops of iodine to the rice and water. Record your observations and the test result on **Record Sheet 4-A**.

12. Repeat step 11 with the other foods.

13. Complete the post-lab questions.

14. Now follow your cleanup instructions.



Record Sheet 4-A

Name: _____

Date: _____

Starch Test for Foods

Pre-Lab Questions

1. What is the nutrient you are testing for? _____

2. What test material are you using to identify the nutrient? _____

3. What is the color of the test material before it is used? _____

Lab

Now test each food for starch. As you complete each test, record your results on the table on the next page. When the table is completed, answer the questions below.

Post-Lab Questions

Using your results, how can you identify a positive test (+) for starch?

Using your results, how can you identify a negative test (-) for starch?

Describe the results of this test on any foods for which the result was not clearly positive or negative: _____

Record Sheet 4-A (continued)

Name: _____

Date: _____

Starch Test for Foods Table

Test Foods	Prediction: present (+) not present (-) don't know (dk)	Observation of Iodine and Food after Test	First Test Results +, -, dk	Second Test Results +, -, dk
1. Rice				
2. Flour				
3. Apple				
4. Egg white				
5. Beef Stick				
6. Doughnut				
7. Onion				
8. Coconut				
9.				
10.				