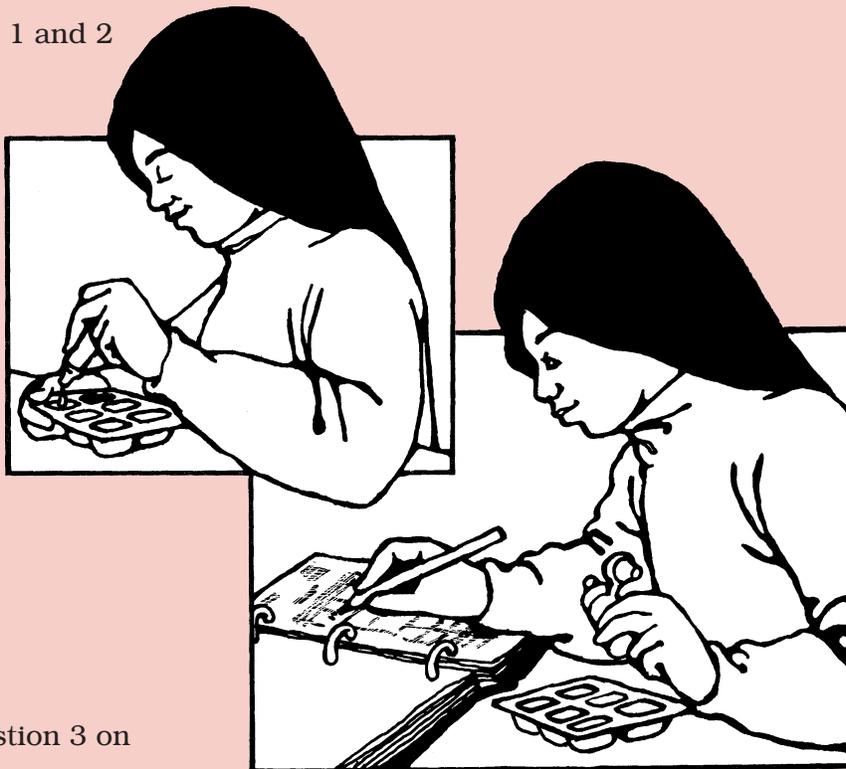


### Student Instructions for Testing Liquids for Starch

1. Answer pre-lab questions 1 and 2 on **Record Sheet 3-A**.



2. Put a drop of iodine in the unnumbered section of the test tray. This is your control.

3. Then answer pre-lab question 3 on **Record Sheet 3-A**.



4. Put three drops of each liquid—water, cornstarch, corn syrup, corn oil, and milk—in its appropriate section of the test tray. Make sure the number of the liquid in the tray section matches the liquid's number on **Record Sheet 3-A**.



- Put two drops of iodine into the first liquid (water) and stir the iodine and water with a toothpick.

- After you mix the iodine and water, observe the color. Share observations with your teammates.
- Record your observations on **Record Sheet 3-A**.
- Then add iodine to the next liquid (cornstarch), stir with a different toothpick, and record your observations.
- Repeat this process for the corn syrup, corn oil, and milk. Be sure to use a different toothpick for each liquid.
- Complete the two post-lab questions.
- Follow your cleanup instructions.



**Record Sheet 3-A**

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

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

**Starch Test for Liquids**

**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 liquid 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?

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## Record Sheet 3-A (continued)

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

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

Starch Test for Liquids Table

Test Liquids	Prediction: present (+) not present (-) don't know (dk)	Observation of Iodine and Liquid after Test	First Test Results +, -, dk	Second Test Results +, -, dk
1. Water				
2. Cornstarch				
3. Corn syrup				
4. Corn oil				
5. Milk				