



Name: Cruz Landry

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Student Exploration: Identifying Nutrients

Directions: Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

Vocabulary: carbohydrate, disaccharide, lipid, monosaccharide, polysaccharide, protein, starch

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

1. What are the major types of nutrients you can get from food?

Carbohydrates (CHO), lipids (fats), proteins, vitamins, minerals, and water are the six main nutrients.

2. How are these nutrients used by your body?

Carbohydrates, proteins, and fats are the three primary nutrients that the body uses to function. These nutrients break down into smaller components during digestion. Energy is obtained from carbohydrates (glucose). After being broken down into fatty acids, fats are used as a source of energy.

Gizmo Warm-up

Have you ever wondered what is in your food? Scientists use a variety of tests to determine the nutritional content of food. You will learn four of those tests with the *Identifying Nutrients* Gizmo.

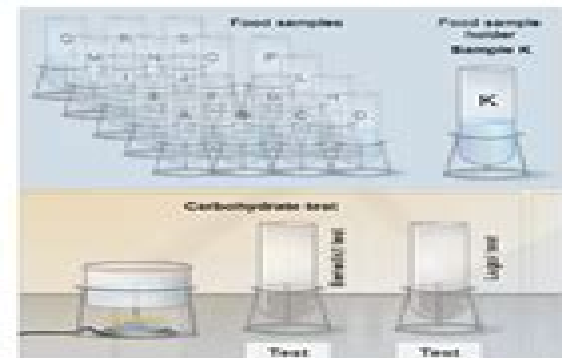
1. Below the **Food samples** label, drag tube **A** into the **Food sample holder**. Below the **Benedict test**, click the **Test** button. What is done in the Benedict test?

It was heated in a water bath for 7 minutes after solutions were added.

2. The Benedict solution is a test for **monosaccharides**: simple sugars like glucose or fructose (fruit sugar); and some **disaccharides** such as lactose and maltose. In contact with these sugars, the Benedict solution turns from blue to green to orange. For simplicity, we will consider the Benedict test a test for monosaccharides only.

Does **Sample A** contain these sugars?

yes



Identifying Nutrients Gizmo Answer Key

Joacim Rocklöv

A red circular graphic with a gradient, appearing as a partial circle or a thick arc, located to the right of the author's name.

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