

Grade Level: Grade 4

Topic: Food Chemistry

Title: *Testing Liquids for Starch*

Objectives

- The students will make predictions, test liquids for presence or absence of starch, and records their results in their science notebook.
- Students will analyze their data to establish a positive and negative test for starch.

Standards

- 4.1.3 – Explain that clear communication is an essential part of doing science since it enables scientists to inform others about their work, to expose their ideas to evaluation by other scientists, and to allow scientists to stay informed about scientific discoveries around the world.
- 4.2.5 – Write descriptions of investigations, using observations and other evidence as support for explanations.

Materials

- Small dropper bottles of water, milk, corn starch, corn oil, and corn syrup.
- Dropper bottle of iodine.
- Six-section test tray
- Toothpicks

Adapted from *STC Food Chemistry*, Lesson 3.

Activities

1. Distribute all materials.
2. Teacher direction: State objective of lesson.
3. Notebook entries
 - a. Name, date, and time
 - b. Give students question: “Which liquids contain starch?”
 - c. Students create chart/table in note book for test activity and test results.
 - d. Students will write procedures.
4. Complete activity based on student written procedures and record results in notebook.
5. Students will write a conclusion in their notebook, based on their investigation results.

Assessment

FOSS Scoring Guide

