



SOYBEAN LIP GLOSS

Overview

Students will learn that crops can be used to make value-added products. The students will make lip gloss from soybean oil.

Objectives

1. Identify five non-food uses for Kansas crops.
2. Students will learn how to make a value-added product.
3. Students will learn how to extract soybean oil.

Background Information

Nearly all agricultural products must be processed to turn them into food and other products before people use them.

Many value-added products are produced from soybeans. The first soybeans had been used as a ballast for a clipper ship from China and were unloaded to make room for cargo on the ship's next trip. A few farmers planted the soybeans out of curiosity. In the 1940's, Henry Ford developed a soybean plastic. Now, soybeans can be found in a wide variety of products, ranging from plywood, particle board, printing inks, soap, candy products, antibiotics, crayons, candles and cosmetics.

Soybean oil is squeezed out of soybeans. The soybean oil is filtered and refined before it is packaged. Soybean oil is processed into many products including snack cakes, salad dressings, mayonnaise, inks, cleansers, adhesives and even foam insulation. The byproduct of soybean oil processing is soybean meal. The most popular use for soybean meal is as poultry, fish and livestock feed, although processors also use it to make soy flour, soy protein, tofu and soy milk.

**Suggested
Grade Level:**
3rd-6th

Time:
20 minutes

Subjects:
Science
Art
Math
Social Studies