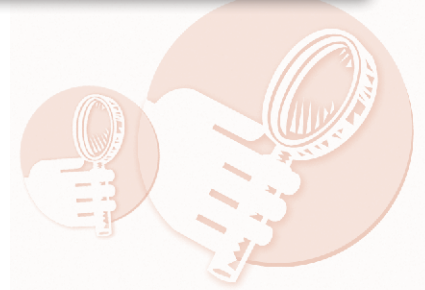




## General Activity



# ROASTED SOY BEANS

Roasted soy beans are a delicious and nutritious treat. Pigs and chickens also eat soy beans. Try this simple recipe with your students.

500 ml	soaked soy beans*	2 cups
5 ml	salt	1 tsp
7 ml	vegetable oil	1-1/2 tsp

\*Note: It is best to soak the soy beans overnight and rinse them thoroughly before roasting.

## Equipment

- measuring cups and spoons
- colander
- mixing bowl
- mixing spoon
- cookie sheet

## Directions

- 1 Preheat oven to 120°C (250°F).
- 2 Wash beans under warm water in colander. Pat dry.
- 3 Mix together in bowl with salt and oil.
- 4 Spread beans on cookie sheet.
- 5 Bake for 30 minutes or until golden brown and crispy. Stir seeds occasionally during baking. Serve warm or cooled, or mix with other dried snack foods to make a trail mix.



**Please note:** children with serious nut allergies may react to soy beans.



## FARM ANIMAL BY-PRODUCTS

<b>fatty acid</b>	chain made of carbons, hydrogen and oxygen that makes fat
<b>gelatin</b>	jelly produced when the skin and bones of animals are boiled; collagen is the main component of gelatin; gelatin is clear, colourless and has a structure that is similar to glue
<b>glycerin</b>	clear, colourless liquid that is a by-product of the manufacture of soap and certain fatty acids
<b>lanolin</b>	fat present in wool
<b>rennet</b>	coagulating enzyme that comes from the stomach (abomasum) of young ruminants

**Fun fact:** 45% of an animal that is raised for food is, in fact, used to produce other things.

## USES OF FARM ANIMAL BY-PRODUCTS

Please note that these are only some of the many products derived from animals.

<b>beeswax</b>	cosmetics, skin cream and lotions, furniture polish, food seal (cheeses), soap, and candles
<b>bones and hooves</b>	buttons, piano keys, porcelain
<b>collagen (beef, pork, and horse skin)</b>	construction of artificial skin for burn victims
<b>down</b>	clothes, bedding, pillows, fishing lures, arrows
<b>egg whites</b>	ceramics, varnish
<b>fatty acids</b>	plastics, rubber, lubricants, fluids, brake fluid, antifreeze, tires, lubricant and softener for fibres and fabrics, lubricant and plasticiser in paper manufacturing



<b>gelatin</b>	canned meat, Jell-O, candies (gummy bears), flavours; stabilizer, thickener or texturizing agent for foods (e.g., ice cream, mayonnaise, yogurt, cream cheese, jam, and frozen foods); clarifying agent for liquids (e.g., fruit juice, vinegar, wine and beer); medication capsules, crayons, glue, photographic film and paper, matches, sand paper, high-gloss paper
<b>glycerin (glycerol)</b>	lipstick and other cosmetics, soap, toothpaste, mouthwash, moisturizers, skin products, cough syrups, food (as a sweetener, for moisture retention and as a solvent), video tape, photographic and x-ray film, car polishing products, plastics, cellophane, antifreeze fluid
<b>hair</b>	paint brushes
<b>heart valve</b>	human heart transplants
<b>honey</b>	food sweetener, medication (syrups and lozenges for sore throat and cough) cosmetics, and soap
<b>intestines</b>	strings for musical instruments, medical sutures
<b>lanolin (fat present in wool)</b>	soap, shaving cream, make-up, skin cream and lotion
<b>leather</b>	furniture, clothing and purses, footballs, baseball gloves and balls
<b>manure, blood, bones and feathers</b>	fertilizer
<b>purified bone powder</b>	sugar refiner
<b>rawhide (skin)</b>	glue
<b>rennet</b>	cheese
<b>suet</b>	latex gloves, bird food, soap, candles, biodiesel fuel, lubricant in steel manufacturing
<b>wool (a by-product in Canada because sheep are raised for meat)</b>	wool and felt for clothing and blankets



## ADDITIONAL RESOURCES

For additional activities on farm animals, agricultural plants, and nutrition, please visit the Museum's website at [agriculture.technomuses.ca](http://agriculture.technomuses.ca). The Educational Activity Kits are located in the School Programs section. They are free and available in both official languages. They contain a variety of activities related to science and technology, language, mathematics, social studies, as well as health and physical education.

**Bees: A Honey of an Idea** is an online exhibition exploring the essential role bees play in the pollination of many Canadian food crops.

[agriculture.technomuses.ca/english/bees/default.php](http://agriculture.technomuses.ca/english/bees/default.php)

*Virtual Exhibition* [agriculture.technomuses.ca](http://agriculture.technomuses.ca)  [virtualmuseum.ca](http://virtualmuseum.ca)

Did you know that in addition to producing honey, bees play an essential role in the pollination of many Canadian food crops?



**Bees**  
*A Honey of an Idea*

Canada 

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