## **Food Preservation**





This project invites youth and adult volunteers to engage in interactive and informal learning to discover the science and art of safe food preservation.

- Learn a variety of food preservation methods while making delicious foods to later enjoy.
- Explore fun facts about nutrition, produce, and the history of food preservation.
- Engage in real life applications of science and mathematics, such as heat transfer, chemistry, and measuring.

# Starting Out Beginner

- Identify the common equipment and supplies needed for preservation methods.
- Learn how to pick the best produce for preserving.
- Review basic food handling and food safety practices.
- Practice safe kitchen skills—such as cutting with knives and handling boiling water.
- Make delicious foods, like strawberry jam, crushed tomatoes, or dried fruit

## Learning More Intermediate

- Experiment with different ways to use preserved food products.
- Practice preservation methods with new types of produce.
- Explore the science and mathematics of preserving.
- Test your knowledge of the fundamentals of preservation methods.

# Exploring Depth Advanced

- Challenge yourself with more complex recipes.
- Learn how to find safe and tested recipes.
- Make new food products, like fruit leathers, dill pickles, and vegetable soup.
- Use proper terminology (eg. Microorganisms, oxidation, enzymes).

#### **4-H THRIVE**

Help youth:

#### **Light Their Spark**

A spark is something youth are passionate about; it really fires them up and gives them joy and energy. Help youth find how food preservation excites them.

#### Flex Their Brain

The brain grows stronger when we try new things and master new skills. Encourage youth effort and persistence to help them reach higher levels of success.

#### **Reach Their Goals**

Help youth use the GPS system to achieve their goals.

- **G**oal Selection: Choose one meaningful, realistic and demanding goal.
- Pursue Strategies: Create a stepby-step plan to make daily choices that support your goal.
- Shift Gears: Change strategies if you're having difficulties reaching your goal. Seek help from others. What are youth going to do when things get in their way?

#### Reflect

Ask project members how they can use their passion for this project to be more confident, competent and caring. Discuss ways they can use their skills to make a contribution in the community, improve their character or establish connections.

The activities above are ideas to inspire further project development. This is not a complete list.

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## **Expand Your Experiences!**

### **Healthy Living**

- Learn how to prepare foods safely to prevent sickness.
- Calculate the caloric value of your homemade food products.
- Grow your own fruits and vegetables to preserve.

### Science, Engineering, and Technology

- Examine different types of packing in freezing foods.
- Experiment with raw and hot packed beans in the pressure canner. Then consider: What happened? Which end do your like better?
- Create your own chart that shows the pH values in your favorite fruits and vegetables and the correct canning method for those foods..

### Citizenship

- Organize an awareness-raising campaign to show how much waste is eliminated by making homemade goods rather than purchasing canned goods from a store
- Collect extra produce in your community that would be wasted and preserve it.
- Make jam to share with others in your community.

### Leadership

- Teach others in your 4-H club about safe food handling practices.
- Create a list of sources for safe, tested food preservation recipes and share with others who like to preserve foods.

Curriculum

#### 4-H Record Book

Presentation Days – Share what you've learned in your food preservation project with others using one of the State 4-H presentation formats.

**Connections & Events** 

Field Days – During these events, 4-H members may participate in a variety of contests related to their project area.

Fair — Enter your favorite jam or jelly at the fair

Contact your county 4-H office to determine additional opportunity

All food preservation projects should follow approved resources for preserving. In particular, the following resource is particularly appropriate for 4-H Food preservation Projects:

http://nchfp.uga.edu/ putitup.html

http://nchfp.uga.edu/

https://pubs.wsu.edu/ listItems.aspx?CategoryID=262 4-H Record Books give members an opportunity to record events and reflect on their experiences. For each project, members document their personal experiences, learning and development.

4-H Record Books also teach members record management skills and encourage them to set goals and develop a plan to meet those goals.

To access the 4-H Record Book online, visit:

http://4h.ucanr.edu/Resources/ Members/RecordBook/

#### Resources

- So Easy to Preserve Book and DVD: <a href="http://setp.uga.edu">http://setp.uga.edu</a>
- Table of Temperatures for Food Preservations: <a href="http://">http://</a>

   nchfp.uga.edu/how/general/ food pres temps.html
- Table of Temperatures for Water Boiling by Altitude: <a href="http://">http://</a> nchfp.uga.edu/how/general/ boil water chart.html
- UC Eating Healthy from Farm to Fork: <a href="http://ucanr.edu/sites/letseathealthy/Curriculum/?close=yes">http://ucanr.edu/sites/letseathealthy/Curriculum/?close=yes</a>

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