Title
4-H Beginning Food Preservation Project

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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 (e.g., microorganisms, oxidation, enzymes).

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

### 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 this project 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.

- **Goal Selection:** Choose one meaningful, realistic and demanding goal.
- **Pursue Strategies:** Create a step-by-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.
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, Technology, Engineering, and Mathematics

- 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 fruit in your community that would be wasted, and make fruit leathers to donate to homeless shelters.
- 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.

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**Connections & Events**

**Presentation Days** – Share what you’ve learned with others through a presentation.

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

Contact your UC Cooperative Extension Office to determine additional opportunities available, such as a field day.

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**Curriculum**

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

- [http://nchfp.uga.edu/putitup.html](http://nchfp.uga.edu/putitup.html)
- [http://nchfp.uga.edu/](http://nchfp.uga.edu/)

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**4-H Record Book**

4-H Record Books give members an opportunity to record events and reflect on their experiences. For each project, members document their 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://ucanr.edu/orb/](http://ucanr.edu/orb/)

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