4-H Baking Project

In this project, youth learn about foods by partnering in the kitchen to plan and create baked goods. Explore the science, nutrition and history of baking while promoting healthy eating and resource management.

- Learn to bake a variety of snacks and treats, including cakes, pastries, pies, granola, breakfast bars, chips, cookies and more.
- Discover the health benefits associated with different foods.
- Explore the science behind baking, such as ratios, chemistry and ingredient interactions.
- Identify common pans used in baking.
- Learn to read a recipe.
- Review basic kitchen hygiene including washing hands and tying up hair.
- Measure wet and dry ingredients correctly.
- Learn how to safely use an oven and how to handle hot pans.
- Learn to separate eggs and discuss safe handling and eating practices.
- Explore other baked snacks besides sweets.
- Roast flavored nuts/seeds.
- Learn to scale recipes.
- Alter a recipe to make it more healthful (e.g., whole wheat, fat substitutes, shredded vegetables).
- Tour a bakery.
- Learn to correctly wrap and store baked goods.
- Explore the variables that affect baking outcomes (distance from heat, baking time and temp, etc.).
- Use a Dutch oven.
- Learn how to make fancy pie crust edges and tops.
- Learn how to clean an oven.
- Create a personal file of at least 25 baked recipes.
- Explore careers in the baking industry.
- Learn to bake gluten-free.
- Learn how different baking materials (cast iron, ceramic, glass, etc.) transfer heat.
- Build a solar oven.
- Understand how to bake at high altitudes.
- Explore advanced French baking techniques.
- Make essential ingredients from scratch (e.g., butter, flour, ground spices).

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

Healthy Living

- Calculate and determine the caloric value and serving size of a homemade dessert.
- Create a portfolio of healthy, youth-friendly baked snacks such as granola bars, dehydrated fruit, roasted nuts, or vegetable chips.
- Take a first aid or safety class to learn how to treat burns.

Science, Technology, Engineering, and Mathematics

- Research the role of fat in baking and experiment using different types of fat or oil (e.g., margarine, olive oil, butter, vegetable oil) in a recipe.
- Be a food photographer. Find an example of food photography in a magazine and try to recreate it with your baking skills and camera.

Citizenship

- Tea for two: invite a special person like a grandparent or older friend over for a pot of tea and cookies. Bake cookies and set out tea and make someone very happy.
- Learn to bake traditional recipes from other countries to develop an understanding and appreciation for a variety of cultures. Share your recipes and baked goods with others.

Leadership

- Facilitate a baking class that teaches others how to make healthier desserts.
- Determine the different types of grains used in baked products (e.g., oats, wheat, rice flour, flaxseed) and give a presentation that follows one grain from farm to fork.
- Create and distribute a list of healthy baked snack ideas for 4-H club meetings.

Connections & Events | Curriculum | 4-H Record Book
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**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 county 4-H office to determine additional opportunities available, such as favorite foods day, a food fiesta, or nutrition and consumer science field day.  
- Fantastic Foods  
  [www.4-hmall.org/Category/4-hcurriculum-foods.aspx](http://www.4-hmall.org/Category/4-hcurriculum-foods.aspx)  
- Bread and Little Hands: 4-H Teacher/Leader Guide  
- 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/)

**Resources**

- **Book:** *Kids’ Ideas with Frozen Dough*  
  by Rhodes International, Inc.  
- **Very Best Baking:** [www.verybestbaking.com](http://www.verybestbaking.com)  
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