

Oklahoma 4-H Youth Development

Food Science 4-H Exhibit Preparation

Level IV 15-19 years old Baked Goods Recipes

2012

Check It Out... Level IV Food Science

There are 15 Lessons/ Activities in the Level IV Food Science Project manual. Each lesson will assist you in developing your knowledge and skills in this project area.

4-H members are encouraged to select lessons and work their way through each set. Your goal is to apply the information to your daily life - through meal planning, preparation and food selection.

The Value of Exhibiting Project Work

- Teaches youth to appreciate high standards
- Teaches youth to observe closely
- Teaches youth to develop their reasoning ability
- Teaches youth to make sound and systematic decisions
- Teaches youth to improve their own work
- Teaches youth to develop the ability to concisely express thoughts

Lessons include:

- 1. Modifying Recipes
- 2. Specialty Yeast Breads—Flatbreads
- 3. Bread, Shaping and Sculpting
- 4. What's Nice About Rice?
- 5. Vegetables as a Main Dish
- 6. Canning Vegetables— It's a Snap!
- 7. Fruit Tarts
- 8. Jellied Fruit, It's So Easy!
- 9. Milk—Food for the Future
- 10.Outdoor Cooking, Grating Grilling
- Excerpt from:

Volunteer Development Series 4H•VOL•107 Judging—A Teaching Technique

Baked Products Sample Score Card		7. Flavor	30%
Yeast Bread		Cakes	
1. Shape	10%	1. Shape 20	
2. Color	10%	2. Crust 10	
3. Volume	10%	3. Volume 10	
4. Crust	10%	4. Crumb 25	
5. Crumb	20%	5. Flavor 35	
6. Slice	10%		

4-H'ers may use any recipe that fits the exhibit requirements according to the age group listed in the current State Fair Catalog. Bread machines may be used to mix and bake a yeast bread exhibits, but the dough must be made from scratch - no mixes. Exhibits are being judged on the quality standards listed for the product.

Purpose for Judging

"TO MAKE THE BEST BET-TER" is the 4-H motto. How do we know what is best? How can we learn to make it better unless we learn standards and develop the ability to make sound decisions? Every experience, which helps us make wise decisions, enriches our lives. Good judgment is based on proper information and the ability to make wise decisions.

Any time a 4-H member exhibits a "project" they are asking to have "what they learned" evaluated through the product being exhibited.

Project work requires practice, just like an athlete must practice their technique.

Food Science Exhibits

- One-half loaf or portion of breads from another culture. Include a one page story on how this bread fits into that culture and its nutritional contribution.
- <u>One-half</u> of one 8" layer Un-iced shortening type cake (no angel food or chiffon)

Recipes in this handout are from the food science manuals. 4-H'ers may use these recipes or any other that fits the exhibit requirements. Cakes must be made from scratch using shortening mixing method (no mixes). Bread machines may be used to mix and bake bread. Dough must be made from scratch, no mixes.

Exhibit will be disqualified if specifications are not followed.



For what is the **Health** trained: To resist disease ; To enjoy life; and To make for efficiency.

11.Meat is Losing its

12.Fixing Fish Fast

Balancing Act

15.A Final Fiesta

13.Smart Substitutions

14.Homemade Cakes: A

Marbles

Difficulty	Reason Why		Quality St	andards for Cake	
oomed or cracked urface and/or tunnels	 batter over mixed wrong type of flour or too much too little baking powder/soda or sugar oven temperature too hot 		Size: U Shape: S	Size: Uniform Shape: Slightly mounded	
ake Sinks in the center	 batter over mixed too much fat and/or sugar or leavening not enough liquid oven temperature too low 		Texture:	and circular Texture: Tender and crisp Color: Light golden color	
ake didn't rise (compact exture)			with sligh Appearan excess flo edges.	with slightly darker edges. Appearance: Free from excess flour on bottom and edges.	
op crust is too dark or ard	 over baked wrong oven temperature too much sugar, baking p 	powder/baking soda	ents well Scoring:	Flavor: Pleasing; ingredi- ents well blended. Scoring: Excellent—Blue; Good—Red; and Needs to be Improved—White Source: Sugar Cookies Judging Criteria Sheet No. 598, April 1986/2000	
oarse grain and dry ake falling apart	 oven temperature too low too much baking powder, too little liquid to much baking powder/li 	/baking soda	be Impro Source: Suga		
	Recipe <u>C</u> e Cakes: A Balancing Act" in the s necessary for the "ideal ca	n Level IV Food Science provide	es excellent		
Ingredients Needed:1/2 cup shortening1 cup sugar2 eggs2/3 cup milk1 teaspoon vanilla2 teaspoons baking powder1 1/2 cup plus 1 Tablespoon flour1/4 teaspoon salt1. Cream shortening and sugar.2. Add well beaten whole eggs (White cake uses 33. Add flavoring to milk.4. In a separate bowl mix dry ingredients -flour, bak		Serving size and nutritional information located on page 3. You be the Judge Evaluate your cake— page 192 Food Science< Level IV egg whites instead of whole eggs.)		Read recipes and direction carefully	
				before starting. Look up term and procedures you do not understand.	
beating well betwee6. Pour half of the bat7. Bake in preheated ofVariations: There are Act.	en each addition. Beat until m ter into two-well-greased and oven at 350°F. for 20-25 minu	hixture is smooth. floured 8-inch cake pans. utes. sted in Homemade Cakes: a F			

Serving Size and Nutritional Information for all Recipes

Percent Daily Values are based on a 2,000 calorie diet. Your daily values may be higher or lower depending on

Cake—page 2

16 Servings - Amount Per Serving Calories 164.3 Total Fat 7.3 g Saturated Fat 2.9 g • Polyunsaturated Fat 0.9 g • Monounsaturated Fat 3.1 g • Cholesterol 24.7 mg Sodium 109.4 mg Potassium 38.9 mg Total Carbohydrate 22.5 g Dietary Fiber 0.3 g • Sugars 13.0 g • Protein 2.3 g Vitamin A 1.0 % Vitamin B-12 0.9 % Vitamin B-6 0.9 % Vitamin C 0.0 % Vitamin D 2.1 % Vitamin E 0.4 % Calcium 5.0 % Copper 0.9 % Folate 6.0 % Iron 3.9 % Magnesium 0.8 % Manganese 5.0 % Niacin 3.6 % Pantothenic Acid 0.6 % Phosphorus 3.8 % Riboflavin 4.7 % Selenium 5.8 % Thiamin 6.3 % Zinc 1.1 %