





Follow Along!

Refer to the handout

All handouts are at

And the Winner is... A Guide to Judging Foods

https://www.rrc.k-state.edu/judging/index.html



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What Makes YOU a Foods Judge?

- · You love to educate!
- · Know basic food science
- · Nutrition knowledge
- Sensory qualities
- Impartial!
- No food allergies or sensitivities
- · Show them...
 - You enjoy baking!



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Take Your Tools!

- Cutting boardSerrated knife
- Small paring knife
- Offset spatula
- Fork(s)
- Hand towels · Wash cloths
- Water to drink
- Carrots or plain crackers to cleanse your mouth
- Disinfectant wipes





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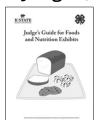
READ THE **RULES!**



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For Judge's, Leaders, Parents, Youth



Class No_______Foods Product______Name______County /District____

Foods Label https://www.kansas4-h.org/events-activities/fairs/kansas-state-fair/docs/foods-and-nutrition/Foods_Label.pdf

http://www.ksre.ksu.edu/bookstore/pubs/4H488.pdf



Mai	N Rapid Respo	more resourd	ces!
	To the second		回数空间
	Marie	A Judge's Role	
	Local Fasals	Here are some new publications from Kansas A-III on the role of a Judge. Check it out!	DESCRIPTION THE PERSON NAMED IN
	Food Personation	The 6-tt Project Schlidt: A Judge's Rafe	of all paid 1 of 1
	Food Proporation	Consultative Judging of a 4 m Project Exhibit.	
	Food Sofety	Food Safety of Frostings and Fillings	0601A W 74
	Human Natrition	There are many revises for fractions and fillings, that when changing a revise to use for a fair contill. I see had	10 To 10 10 Table 10 10 10 10 10 10 10 10 10 10 10 10 10
	You Asked St	safety in mind as not all are safe to store at nonh temperature. See our new publication on this topic and the existing behind the reside.	AND ACTION OF
	helping at Faire	Food Safety of Frontings and Fillings - W2944, Kansan State University	THE PROPERTY OF
	Publications	Testing data for above publication	1011/24/2010
	Professional Speciment	 Food Safety of Prootings and Fillings - presentation, August 2020 	
		Virtual Fair Judges Training	
	R State Rapid Response Center Superinant of Animal Sciences and Solutiny USA Section	First, there you for your decision to judge trads and/or food precentation at counts fairs or the State fair. This operations can be unto remediting for you and is a great war to help educate youth and ethnics in making good qualify and self-products.	
	USSETTION COMPANY STATE	define are resources to help educate you on how to be a judge for floots and flood preservation. Asses take the time to review the materials on each topic, These webinars were held and recorded in April, 2023.	
	Nacharlan, 43 MISSE Nacharlan, 43 MISSE Nacharlan	Kanses State Seir 4-b Division	
	Mildrani (S. Viselo, sello	Session 1 - Overview of Fair Judging	
	E3 121	Introduction to Felt Judging - Presentation slides (PDF)	
		The 4 or Project Eurobit: A Judge's Rafe	
		Consultative Judging of a 4-in Project Exhibit	K-STATE
		Recording of Session)	
	https://	www.rrc.k-state.edu/judging/index.html	Research and Extension
		, -3	



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Other Items

- Gluten Free
- Educational Posters
- · Gift Baskets
- Bread Sculpture
- Favorite Food Shows
- Cake Decorating (not in 4-H State Fair)
- Flop Class
- Special Baking Competition
- · Others?



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So What Can Be Entered at a Fair?

There are thousands of recipes!!













PRACTICE! PRACTICE!



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Why is Food Safety Important?

Every time you cook or bake in the kitchen you are doing a science experiment!

Not all recipes are appropriate for the fair!!

Be smart about food safety!!



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Is This Food Exhibit Safe?

- · Ask Yourself...
 - Does this food require refrigeration?
 - Would you eat this food at room temperature?
 - Will this product hold up to its standard when it is judged or displayed?
- Unsafe foods will be disqualified!





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What Makes a Food Unsafe?

• Three categories of hazards









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Microorganisms

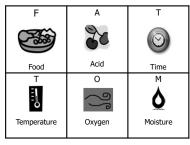
- · Biggest risk to human health
- · Loss of shelf life
- Loss of product quality
- Can lead to foodborne illness



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Conditions for Growth



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What Grows Where?

- Bacteria, yeast, and molds can grow on just about any food
 - They really like carbohydrates and protein
- Some examples include...



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Question #1



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Question #1

Which item is safe at room temperature?

- A. Frosted Cupcake garnished with Bacon
- B. Sugar cookies not frosted
- C. Homemade Pumpkin pie
- D. Fresh fruit garnish



Food Safety at the Fair

- · What is perishable?
 - High in moisture, protein and neutral acidityAnything that needs refrigeration

 - Baking does not guarantee safety!
- Many fairs have a Perishable Foods class
 - Bring at proper temperature, judge, take home
- · Perishable foods are good options for a Favorite Food Show or demonstration
- · County Fairs that have refrigeration can allow perishable exhibits
 - Not allowed at State Fair 4-H Foods!



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Frostings and Fillings

- · KSU Study of many frostings and fillings
- · Tested 49 recipes
- pH, Aw below 0.85, % Brix, Quality, taste, appearance, shelf life for visible mold growth







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Food Safety of Frostings and Fillings

There are many recipes for frostings and fillings. But when choosing a recipe to use for a fair exhibit, keep food safety in mind as not all are safe to store at room temperature. See our new publication on this topic and the science behind the recipe.

- Food Safety of Frostings and Fillings MF3544, Kansas State University
 Testing data for above publication
 Food Safety of Frostings and Fillings presentation, August 2020





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State Fair Requirement 2023

- Use a frosting or filling recipe with a minimum of 65% sugar, by weight. Must show calculation!
 - If using Corn Syrup, it is only 70% sugar and the rest is water!
 - Does not factor in natural sugars or sugars already in other ingredients
 - Sweetened coconut, chocolate chips, bananas
- · Convert household measurements to grams
 - Metric scale
 - Internet search for specific ingredient, amount, and convert to grams
 - Online recipe calculators



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State Fair Requirement 2023

FOOD SAFETY
OF FROSTINGS AND FILLINGS

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- For any frosting or filling, the calculation must be shown on the recipe to show it is at least 65% sugar
- Recommended for county fairs also

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Example 2 – Fill Cheese Fi Example 2: Filling for Le	•	on I
Ingredients	Weight in grams	
8 ounces cream cheese	227	
1/4 cup sugar	50	
1 teaspoon lemon juice	4.79	
2 teaspoons water	9.86	
½ cup coconut	40	
Total weight	331.65	
% sugar: (50/331.65) x 100 = 15% This frosting is below 65% sugar and the because of the high amount of dairy ingre		STATE h and Extension

Perishable Foods

- Icings and frostings made with RAW eggs
- · Cream cheese frosting
- · Chocolate Ganache
- · Heavy cream frosting
- · Lemon curd







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Perishable Foods

- Fresh fruit OR vegetable as a garnish
 - Once these are cut, they must be refrigerated
 - Many whole fruits need refrigeration
 - Strawberries
 - Raspberries
 - Many vegetables need refrigeration after harvest
 - Peppers

NOT ACCEPTABLE!



Fillings with High Amount of Dairy

- · Any Dairy based filling
 - Cream cheese
 - Sour cream
 - Ricotta
- Moisture level is higher in the filling and the food would need refrigeration to prevent microbial growth



NOT ACCEPTABLE!

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Pies

- **Custard Pie**
 - Pumpkin
 - Cheesecake
- Cream/Meringue Pie
 - Coconut
 - Chocolate
 - Lemon
- Any flavor!
- Bacteria can multiply in these moist desserts high in dairy and eggs at room temperature
- Fresh Strawberry pie
- Chiffon pie

NOT ACCEPTABLE!



32

Bread or Cake in a Jar

- · Jars should not be used in oven
 - Per manufacturer recommendations
- · Sealed jar creates anaerobic environment that supports growth of Botulism!



NOT ACCEPTABLE!



Baking in Brown Paper Bags

"Do not use brown paper bags from the grocery or other stores for cooking. They are not sanitary, may cause a fire, and may emit toxic fumes. Intense heat may cause a bag to ignite, causing a fire in the oven and possibly contaminating the food. The ink, glue, and recycled materials in paper bags may emit toxic fumes when they are exposed to heat. Instead, use commercial oven cooking bags."



NOT ACCEPTABLE!

Source: USDA FSI



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Say NO to Alcohol!

- 4-H Youth are not of legal age to purchase or possess alcohol
- Not all of the alcohol is evaporated or baked off during cooking or baking
 - during cooking or baking.

 Alcohol retention ranged between 4% and 85%
 - Depends on severity of heat treatment



NOT ACCEPTABLE!

https://www.jandonline.org/article/S0002-8223(02)90122-7/fulltext https://www.sciencedirect.com/science/article/pii/S1878450X163004;



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Cooking in Clay Pots

- · Non-glazed terra cotta clay pots
 - Flower pots
 - Not food grade
 - May contain lead
- Use pots with food grade glaze
 - Labeled for food use
- Might show up in a gift basket

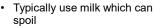


NOT ACCEPTABLE!

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Friendship Bread Safety

- If starter was NOT fermented in the refrigerator, it will NOT be acceptable
 - Studies have shown that Salmonella and Staphylococcus aureus can grow during prolonged fermentation at room temperature





ttp://www.foodsafety.wisc.edu/assets/pdf_files/friendship_bread.pdf

NOT ACCEPTABLE!

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Bacon or Meat

- · Meat is perishable
- · May not be completely cooked
- · Best eaten fresh out of the oven
- · Better for demonstration or Favorite Food Show





NOT ACCEPTABLE!

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Flavored Oils

- · Herbs, vegetables, and garlic in oil
 - Garlic in oil has caused Botulism
 - Must be refrigerated
- · Flavored vinegars are safe
- Might be in a gift basket
- www.ext.colostate.edu/pubs/foodnut/09340.html
- https://www.extension.uidaho.edu/publishing/pdf/ PNW/PNW664.pdf

FLAVORED OILS NOT ACCEPTABLE!



Raw Flour

- Raw flour linked to foodborne illness
- No raw flour in no-bake foods
 - Includes ALL types of flour
- Does not apply to oatmeal
 - Oats are heat treated in processing



NOT ACCEPTABLE!
https://www.ksre.k-state.edu/foodsafety/topics/preparation.html



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Question #2

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Question #2

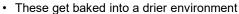
Which of these foods are perishable and require refrigeration for food safety?

- A. Chocolate chip cookies
- B. Cream Cheese frosting
- C. Fresh Strawberry pie
- D. Both B & C

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What is Safe and Non-Perishable?

- · Dairy products incorporated into the entire battér
 - Not as separate layer
- · Examples include
 - Cream cheese
 - Sour cream
 - Milk
 - Cream



ACCEPTABLE!



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What is Safe and Non-Perishable?

- · Eggs mixed into the batter and baked
- Egg glazes on top of breads prior to baking
- · Egg white powder
 - Meringue powder
 - Used in place of raw egg whites for frosting
- · Egg in pie crust



ACCEPTABLE!

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What is Safe and Non-Perishable?

- Fruit baked into a product
 - Pineapple Upside Down Cake
 - Blueberry muffins





ACCEPTABLE!

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What is Safe and Non-Perishable?

- Fruit Pie
 - High sugar content takes moisture away from bacteria
 - Baking reduces bacteria issues
 - Exception is refrigerated pie like fresh Strawberry pie
- · Pecan or any Nut Pie
 - High sugar content binds up moisture making it unavailable for bacteria to use





ACCEPTABLE!

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What is Safe and Non-Perishable?

- · Frostings/Icings
 - High sugar content suppresses bacterial growth
 - Use small amount of liquid
 - Milk, juice, water
 - Add flavorings
 - Cream cheese flavor
 - Fruit flavor
 - Shortening withstands heat better than butter
 - German Chocolate Frosting
 - Commercial frosting
 - · Note in the recipe



ACCEPTABLE!



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What is Safe and Non-Perishable?

- · Cheese mixed into entire batter
 - Hard Cheese
 - · Shredded Cheddar
 - Cottage Cheese
 - Ricotta Cheese
 - Cream Cheese
- These are baked into a dry environment, less moisture

ACCEPTABLE!



Is it Nutritious?



- Consider the Dietary Guidelines
- Use of whole grains, fiber
- · Low in fat
- · Low in sodium
- · Reduce added sugars
- · Proper portion size

Prize winners do not always = high fat or high sugar!



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Portion Size

- · Portion size!
 - Bar cookies 2-inch
 - Drop cookies 2 half dollar coins
 - Cinnamon roll hockey puck
 - Roll bar of soap
 - Muffin tennis ball
 - Biscuit hockey puck



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Most Common Baking Problems

- Incorrect ingredient measurement
- Overmixing
- Undermixing
- · Oven problems
 - Temperature wrong
 - Underbaked



- Greasing too much
- Wrong size
- Type of pan





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Types of Pans

- Shiny pans reflect heat – Gives lighter color
- Dark pans absorb heat
 Gives darker color
- Reduce oven temp 25°F for glass pans
- Grease bottoms of cake and bread pans
- · Greasing sides is optional
- · Can use parchment paper



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Question #3



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Question #3

Which tests help determine doneness of baked goods?

- A. Baking time
- B. Color
- C. Touch
- D. Food thermometer
- E. All of the above



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Judging Basics

- · Look, touch, smell, taste
- Appearance, shape, size
- · Lift product
- · Cut into the middle
- Feel the texture
- · Smell for pleasant, characteristic odor
- Smell for pleasant, ordered
 Taste a small piece and check mouthfeel
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Cookies

- · Like cake, amount of ingredients and mixing different
- · Types of cookies
 - Bar
 - Drop
 - Pressed
 - Molded
 - Rolled
 - Icebox/Refrigerator



Wheat Foods Coun



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Tips for Better Cookies

- Stir dry ingredients before measuring
- · Sugar affects spread
- · Brown sugar adds moisture
- Margarine & butter gives rich taste, flatter shape, more spread
- Soft fat aids creaming
- Milk and water can be interchanged







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Tips for Better Cookies, cont.

- Sugar and fat should be creamed until fluffy
- Chilled dough will be stiffer and spread less
- Avoid over handling, makes cookies tough
- If dough too stiff, add liquid; if too soft, add flour
- Bake for minimum time and check for doneness



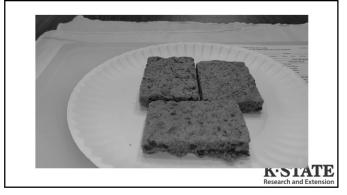




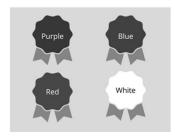
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Let's Judge Bar Cookies! Whole Wheat Chocolate Chip 1 cup butter, room temp % cup granulated sugar % cup packed brown sugar 1 tsp. vanilla extract 2 eggs 1 cup whole wheat flour 1 % cups all purpose flour 1 tsp. salt 2 cups semisweet chocolate chips 1 cup chopped nuts K. STATE Research and Extension

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Let's Judge Drop Cookies

Chocolate Chip Cookies

2/3 cup margarine

2/3 cup butter flavored shortening

3/4 cup brown sugar

3/4 cup granulated sugar

2 eggs

2 teaspoons vanilla

3 1/4 cups all-purpose flour

1 teaspoon baking soda

1 teaspoon salt

1 cup semi-sweet chocolate chips

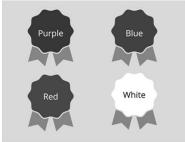


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Quick Breads

- · Mixing is key step
- Baked immediately after mixing
- Leavened with air, steam, baking soda or baking powder
- Grease pans first
- Dust berries and nuts with flour to prevent sinking



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What about liners?

- · Not needed for muffins!
- · Simply grease the pan
- Muffins are sturdy and do not need paper liner support
- · Often stick and tear apart the muffin
- These are intended for cupcakes



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Let's Judge Biscuits

Mile High Biscuits

- 3 cups sifted flour
- 2 tbsp. sugar
- 4 1/2 tsp. baking powder
- 3/4 tsp. cream of tartar
- ¾ tsp. salt
- 3/4 cup shortening
- 1 egg, beaten
- 1 cup milk

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Choose the ribbon! | Purple | Blue | White | STATE | Broads and Experience | Choose the ribbon!

Let's Judge Muffins

Corn Muffins

- 1 cup yellow cornmeal
- 1 cup all-purpose flour
- 2 tablespoons sugar
- 4 teaspoons baking powder
- 1 teaspoon salt
- 1 cup milk
- 1/4 cup oil
- 1 egg, well beaten

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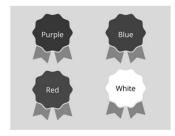
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Choose the ribbon!



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Let's Judge Quick Bread

Banana Bread

3/4 cup sugar 3/4 cup oil

2 eggs 3 large ripe bananas, mashed

1/4 cup water

1 cup quick oats

1 1/2 cup flour

1 3-oz package instant pudding mix (vanilla or white chocolate)

1 teaspoon baking soda

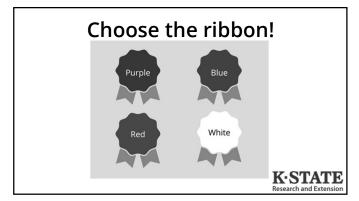
1 teaspoon baking powder 1/2 teaspoon salt



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Bread Making Tips

- · Kneaded and no-knead types
- · Kneading is critical!
 - By hand or mixer
 - Usually 5-12 minutes
- · Let rise in warm, draft-free place
- · Scale dough for consistency
- · Do the dent test!
- Don't let dough over-rise!





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Key Breadmaking Temperatures

- 100° to $110^{\circ}F$ Temperature to dissolve yeast
- 120° to 130°F Temperature for fast rising yeast mixed with flour
- 70° to 80°F Liquid temperature for bread machine bread



- 135°F Yeast is killed
- 84° to 86°F Ideal yeast dough temperature
- 80° to 85°F Ideal rising temperature
- 190° to 205°F Final internal temperature of baked bread
- 70°F or below Causes quick staling of bread, but care started prevent mold growth

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» Source: Yeast Breads Made Easy. KWC

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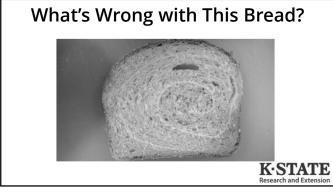
What's Wrong with this Bread?

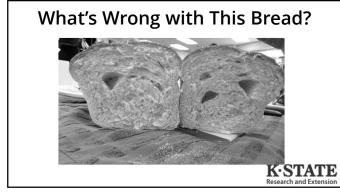


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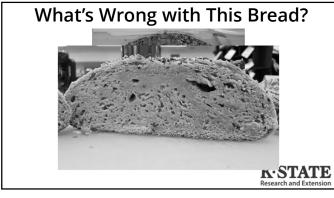
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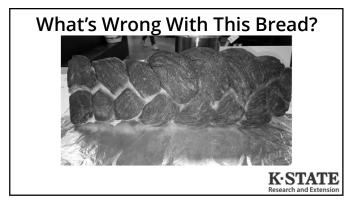












What's Wrong With This Bread?



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Let's Judge Rolls Cinnamon Rolls

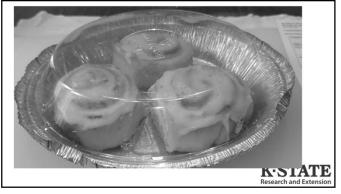
- 1 cup milk, scalded
- 1/2 cup cold water
- 1/3 cup sugar 1 package active dry yeast
- 1 egg
- 1 teaspoon salt 1/2 cup vegetable oil
- 4 1/2 5 1/2 cups all purpose flour

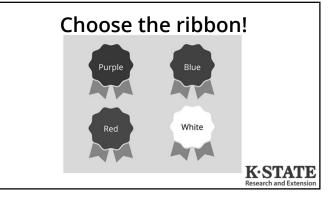
Filling: softened margarine, granulated sugar, cinnamon lcing: 1 T melted margarine, 1 cup powdered sugar, milk to desired consistency

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Let's Judge Loaf Bread

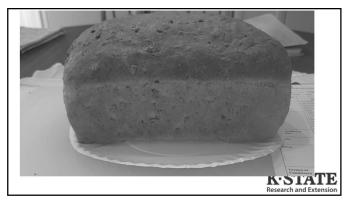
Honey Wheat Sunflower Bread

- 2 cups warm water (105-115F) 2 ¾ to 3 ¼ cups bread flour
- 2 ¾ to 3 ¼ cups bread flour 2 pkg. active dry yeast
- 1 tbsp. sugar
- 2 cups whole wheat flour
- 1 cup rolled oats 1/3 cup instant nonfat dry milk
- 1/4 cup butter, softened
- 1/4 cup honey
- 2 tsp. salt
- 1 cup unsalted sunflower nuts

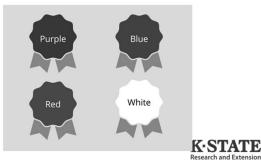


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Unshortened Cakes

- Angel Food Cake
 - Egg whites, sugar and cake flour
 - Small amounts of cream of tartar, salt, flavoring
- · Sponge Cake
 - Has egg yolk foam and egg white foam
- · Chiffon Cake
 - Sponge Cake with vegetable oil added





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Unshortened Cake Tips

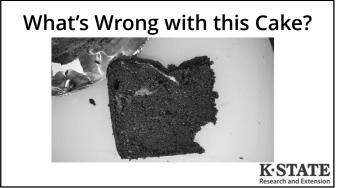
- For Angel Food Cakes, no fat present
- · Don't use plastic or wooden bowls
- · Make a good egg white foam
- · Add cream of tartar at beginning
- · Fold, don't stir!
- Bake until cake springs back when touched
- Cool upside down to stretch and set cake





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Shortened Cakes

- · Creaming method
 - Gives light, well-aerated texture
 - Beat butter and sugar until light and fluffy
 - Add eggs, one at a time, beat well
 - Alternate dry and liquid ingredients
 - Alternating ensures even blending
 - Don't over mix





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Shaping Layer Cakes

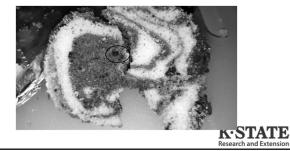
- · Measure ingredients properly
 - Spoon ingredients into measuring cups
- Level with a knife
- Sift or stir the flour, it compacts over time
- · Grease pan thoroughly
 - Line bottoms with wax or parchment paper
- · Weigh the pans of batter
 - Fill no more than 2/3 full
 - Spread batter evenly in pan





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What's Wrong with this Cake?



What's Wrong With These Cupcakes?



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Difficult Cake for a Fair





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Let's Judge Layer Cake

Layer Cake

White cake mix prepared according to package directions

Commercial raspberry jam between layers

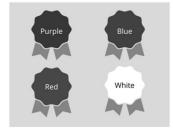
- 2 cups powdered sugar
- 2 tablespoons margarine
- 2 tablespoons butter-flavor shortening
- 2 tablespoons milk
- 1/4 teaspoon clear vanilla

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Pie Crust Problems

- · Soggy bottoms
 - Filling not fully thickened
 - Not baked long enough
 - Baked at too low of temperature
 - Pie pan placed on baking sheet or aluminum foil which can interfere with heat transfer
 - Crust torn and filling ran underneath crust



Pie Crust Problems

- · Crust too brown
 - Too much protein and sugar
 - Baked too long or too hot
 - Burnt spots due to uneven dough thickness
 - Use pie shield to prevent edges from browning too much
- Crust shrank
 - Dough stretched
 - Too much gluten formation
 - Too much water added
 - Dough overworked



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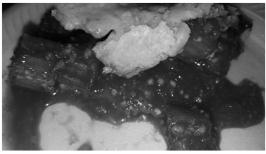
- Fruit Fillings

 Balance between fruit, juice, sweetener, and thickener
- Use fresh, frozen, cooked, canned or rehydrated dried fruit
 Starch thickener typically used

 Cornstarch makes firm gel
- - Clear Jel waxy maize or modified starch, makes soft paste
 Tapioca
- · Flour makes a cloudy gel, breaks down



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Let's Judge Pie

Fresh Cherry Pie

Filling
3 1/2 cups fresh sour cherries
3/4 cup sugar
3 tablespoons cornstarch

- 1/2 teaspoon salt 1/4 teaspoon almond extract 2-3 drops red food coloring
- Crust 2 cups flour
- 10 tablespoons white solid shortening 2 tablespoons butter-flavor solid shortening
- 1/2 teaspoon salt
 1/2 cup cold water whisked with 1 tablespoon oil (use just enough to moisten flour mixture; will not need all of this)

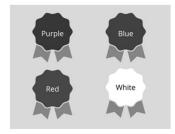


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Big thanks to my video producer!







NEVT OFOOION
NEXT SESSION
April 25, 7:00 pm- How to Judge Food: Food Preservation
See you then!
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April 2023