Pastry Pizazz!

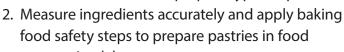
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Lesson Summary: Tender, flaky pastries are a perfect partner to any pie or tart filling. We'll learn about different kinds of pastries and how to prepare them ourselves. Then we'll bake a variety of pies to donate to our community.



Lesson Objectives:

- 1. Identify key pastry ingredients, their functions, ratio (3-2-1) and how to prepare types of pastries
- food safety steps to prepare pastries in food preparation labs
- 3. Bake pies to donate to the American Legion or other local group in the community







FCS Classes Bake Pies for Legion Turkey Supper

October 21, 2019

The high school FCS classes at Howells-Dodge baked pies for the Legion Turkey Supper which was held on October 20, 2019. Students worked in groups to bake apple, peach, cherry and pumpkin pies for the event. Over 725 turkey supper meals were served that evening.







Baking Flour Food Safety poster and video: namamillers.org/consumer-resources/ consumer-food-safety/







Chef Martin Earl video "The Importance of Temperature in Baking" (9 min) for both food safety and quality baking outcomes: thermoworks.com/homebaking-association/

How to Measure Dry and Liquid Ingredients; Scoop, **Spoon, Scale** activity: homebaking.org/getting-started/

Safe Recipe Style Guide: saferecipeguide.org/ You can assign

students to insert the baking food safety steps needed in the recipe(s) used in lab.

Why Bake in Glass? Download this infographic and learn about U.S.-made glass bakeware and its pie baking benefits.



Need a benefit idea? Check out Bake

Sale for No Kid Hungry Rock Stars and Resources to assist



your pie baking benefit. bakesale. nokidhungry.org/ Consider a savory hand-held pie, like Empanadas, for individual sales.

homebaking.org/recipe-items/beef-empanadas/

This lesson supports these learning standards and objectives:

National Standards for Family and Consumer Sciences Education | leadfcsed.org/national-standards.html

8.0 Food Production and Services

8.5 Demonstrate professional food preparation methods and techniques for all menu categories to produce a variety of food products that meet customer needs.

8.5.10 Prepare breads, baked goods and desserts using safe handling and professional preparation techniques.

Day 1: Introduction to Pastries

- 1. Assign, read and discuss Ch 21–Baking, FOOD FOR TODAY, pgs 579-586.
- 2. Students will do the **Pastry Vocabulary** sheet, using the glossary at homebaking.org/glossary/.
- 3. Explore the Chef's Choice Best Pie Recipes at Domino Sugar's corporate test kitchen dominosugar.com/pie-recipes and C&H Sugar's Pie making tips chsugar.com/recipe-result?filter by tid=955&type=tips

Day 2: Pastry Pizazz

- 1. Share and hand in the Pastry Vocabulary assignment.
- 2. Watch the "Pastry & Pies" slides presented by the teacher and complete the **Pastry and Pies Study Guide** assignment.
- 3. Read the Flour Food Safety Infographic or view the 1-minute video at namamillers.org/consumer-resources/ and discuss.
- 4. Demonstrate or confirm they know how to accurately measure flour, liquids using volume and scale methods.

Day 3: Pastry Pizazz

- 1. Share and discuss the Pastry and Pies Study Guide assignment.
- 2. Share and discuss the **Troubleshooting Pastries With Pizazz** sheet in class.
- 3. Play "Pastry Pizazz" Kahoot to learn pastry facts and fiction.
- 4. EXTRA! Assign students to view "cutting in" video, how-to-make-perfect-pies-and-tarts/how-to-make-lattice-pie-crusts

Day 4: Pastry Pizazz

- 1. Use the **Foods Lab Planning** sheet to work in groups to plan 2 pie labs. See **Pastry Recipes With Pizazz** recipe sheets. The class will be using donated ingredients to make pies to donate to the Howells American Legion Post #155 annual turkey supper as a community fundraiser, or select another local beneficiary. They may also plan a bake sale for **Bake for No Kid Hungry**, bakesale.nokidhungry.org/; sale support resources are provided.
- 2. Do the <u>Pie Puzzler</u> assignment to unscramble the many types of pies available. Post/share The United State of Pie <u>wheatfoods.org/wp-content/uploads/2019/06/TheUSofPie.pdf</u> to identify what pies are most popular where! OPTIONAL: Assign students to learn some pie history such as Pie Factoids, Easy as Pie, <u>homebaking.org/wp-content/uploads/2019/05/easyas_alphabetpie.pdf</u>.

Day 5: Pastry Pizazz

- 1. Hand in the Pie Puzzler assignment.
- 2. Working in groups in the foods lab, students will prepare and bake pies to donate to the American Legion. Pies will be covered and stored properly when cooled.

Day 6: Pastry Pizazz

1. Students will work in groups to prepare and bake pies to donate to the American Legion or chosen benefit. Pies will be covered, properly stored and stored or delivered to the American Legion later in the day.

Day 7: Pastry Pizazz Evaluation

- 1. Students will discuss and write about what they learned about baking pies and describe the experience on the **What Did You Learn?** sheet.
- 2. Working in groups, students will plan a pastry lab using the Pastry Recipes With Pizazz recipes to make the pastry of their choice.

Day 8: Pastry Pizazz Lab

- 1. Students work in groups to prepare the pastry of their choice.
- 2. Review for the Chapter 21 Test.

Day 9: Pastry Pizazz Finale

- 1. Take the Chapter 21 Test.
- 2. Sample and evaluate the pastry made in lab on Day 8, using the **Foods Lab Evaluation** sheet.

WHAT IS 3-2-1 PIE CRUST MATH?

The pastry ratio of "3-2-1" is easy to remember and easy to produce!

What does "3-2-1" mean?

By weight, the pastry dough is **3** parts flour, **2** parts butter or fat, and **1** part ice water.

By volume (If kitchen scales are unavailable) for a 9-inch single crust, 1 ½ cups flour (6 oz/180g), ½ cup cold butter or fat (4 oz/120g); and ¼ cup ice water (2 oz/60g).

Pastry Vocabulary

Name: ANSWER KEY Date: Points: /15 Learn more! Do you grow wheat locally? How is flour milled? namamillers.org/consumer-resources/ What are the six wheat classes and the flours made from them? wheatfoods.org/resources/infographics/ Instructions: Go to homebaking.org/glossary/. Use the glossary to define the following pastry terms. Wheat flour milled from hard wheat or a blend of soft and hard wheat. Used in homes for some 1. All-purpose flour yeast breads, quick breads, cakes, cookies, pastries and noodles. Produced by churning cream into a semi-solid form. By U.S. standards definition, it is 80 percent milk fat, with 2. Butter the remaining 20 percent consisting of water and milk solids. Butter for baking may be salted or unsalted. To distribute a solid fat (shortening, butter, lard) into flour using a pastry blender (up and down motion), 3. Cut-in or two knives (crisscross motion), until fat is divided evenly in the flour in pea-sized or smaller pieces. View how to cut-in fat video homebaking.org/glossary/#c A food processor and steel blade may also be used. To place small dabs or pieces of butter or batter over the surface of a food, such as with a pie, just before 4. Dot the top crust is added and baking begins. Distinct layers of pastry or biscuit formed by using low protein flour, fat, and by not too much mixing. Flaky 5. Developed as a butter substitute in the late 1800s, margarine is 80% vegetable oil, 20% is liquids. May 6. Margarine be salted or unsalted. Margarine is no longer made with partially hydrogenated oils (PHOs); commonly made from soybean, corn, palm, canola, or olive oil. Stiffly beaten egg white and granulated sugar that may be soft or baked hard. 7. Meringue Fats come from two sources-plant or animal. Vegetable oils are plant-based and liquid at room 8. Oils termperature. Hand-held U-shaped tool with 5 or 6 sturdy parallel wires used to "cut" cold butter or fat into smaller Pastry blender 9. pieces into a flour mixture without melting or smearing the butter or fat. 10. Pastry flour Fine-textured flour produced from soft red or white wheat and 8-9% protein; may be bleached, unbleached, or whole wheat. A sweet or savory dish made with one or two crusts and filling (pudding, fruit, meat or vegetables). 11. Pie Typically a 9" or 9.5" round slanted dish made of glass. Glass heats slowly, bakes evenly, browns bottom 12. Pie plate pie crusts beautifully to prevent a soggy bottom crust and allows you to see pie while baking. Can be produced three ways: Open-air evaporation of salt brine in shallow ponds. Mining rock salt 13. Salt deposits. Boiling and evaporation of higher purity brine. Salt contributes to flavor in baked goods, and controls fermentation of yeast in breads.

point. Since the oils are fully hydrogenated rather than partially hydrogenated, there are no trans fats present.

Very hard water and soft water create problems for baked goods. Tap water of medium hardness and without noticeable chlorination or other off odors is suitable. Bottled water may be used in very hard

water regions.

Pastry Pizazz: A <u>HomeBaking.org</u> Educator Award Lesson by Marla Prusa, Howell, NE

14. **Vegetable shortening** converts the liquid oil to a semi-solid. Shortening is shelf-stable at room temperature. It has a high melting

Made from a blend of vegetable oils that have been hydrogenated. Adding hydrogen to the heated oils

Pastry and Pies Study Guide

Nan	ne: ANSWER KEY	Date:	Points: /20	
Inst	ructions: Answer the following questions wh	ile watching the Pastry and Pies slides	5.	
1.	Pastry is made of layered desserts, tarts, and, of course, pie crusts.	l or flaky dough that can be used to m	nake a variety of	
2.	A pie crust that is pricked, baked separately	and filled later is apie	shell	
3.	A type of pie where the bottom crust and fil pie.	lling are baked together is a	single crust	
4.	The type of pie that has bottom crust, filling crust pie.	ι, and top crust baked together is a $__$	double	
5. What are the 4 main pastry ingredients?				
	flour	WHAT IS 3-2-1 PIE	CRUST MATH?	
		_	is easy to remember and easy	
	salt	_ What does "3-2-1" me	an?	
	fat – may be shortening, butter, lard	By weight, the pastry dou butter or fat, and 1 pa	ugh is 3 parts flour, 2 parts art ice water.	
	water		les are unavailable) for a ½ cups flour (6 oz/180g), ½ (4 oz/120g); and ¼ cup ice	
6.	Basic Pie Crust is called	dough.		
7.	Making the pastry begins by measuring floupastry blender	ur and salt into the mixing bowl. Add f to "cut in" the fat, until the cr		
	small peas.			
8.	Next, add cold <u>water</u> and	d toss with a fork to moisten. Form the	e pastry into a ball.	
9.	When rolling the dough with a rolling pin, ro	oll from the <u>center</u>	outward.	
10.	When placing the dough into the pie pan, a	void <u>stretching</u> the dou	uah.	

Pastry and Pies Study Guide (cont.)

Nar	ne: <i>ANSWER KEY</i>
11.	When making a pie shell, the pastry should be <u>pricked or docked</u> with a fork before baking.
12.	<u>Cream</u> pies are made by preparing a cooked filling and pouring it into a baked pie shell.
13.	A <u>meringue</u> pie is made by topping the cooked filling with a mixture of beaten egg whites, sugar and other ingredients, then baking to brown the meringue.
14.	To finish a double-crust pie, you can glaze it with milk and sprinkle it with sugar before baking. Cut vents in the top of the pie to allow steam to escape.
15.	Strips of aluminum foil around the edges of the crust will help prevent too much browning. Remove the strips 15 minutes before the end of the baking time.
16.	A <u>lattice</u> crust is made by weaving strips of pastry over the top of a pie.
17.	A is a pastry dish usually filled with a sweet topping that has no top crust.
18.	The roll-in-dough method is used to make pastries.
19.	Phyllo dough consists of paper-thin sheets of pastry.
20.	Choux dough is made from flour, butter, water and eggs and is used to make eclairs and cream puffs.
21.	EXTRA! Which type of pie pan will bake the crispest crust? A) lightweight aluminum foil B) glass C) aluminum

Pie Puzzler

Name: ANSWER KEY Date: Points: /20

<u>Instructions</u>: Unscramble the following letters to find a variety of flavors of pie. Then, using the United State of Pie handout, identify the states where each of the type of pie is most popular.

Ple handout, identify the s	tates where each of the type of pie is Type of Pie	most popular. State
1. ACTALHOEC	Chocolate	Ala., Mass., N.M., Nev., Vt., Wyo.
2. YREHCR	Cherry	Missouri, Ohio, Ore., Tenn, W.V.
3. ELKABYCRBR	Blackberry	
4. APNEPLPEI	Pineapple	
5. RCYRANBER	Cranberry	
6. RPEGA	Grape	
7. RBYBUELER	Blueberry	_
8. CAPTRIO	Apricot	
9. NKIPUPM	Pumpkin	Nevada
10. BHARUBR	Rhubarb	
11. CONCTUON REMAC	Coconut Cream	Miss., N.M.
12. INIRSA	Raisin	AZ, CA, CO, CT, DE, KS, IA, IL, IN,
13. PPAEL	Apple	AZ, CA, CO, CT, DE, KS, IA, IL, IN, GA, ME, MD, MI, MN, NC, NY, NJ, NH, OK, PA, TN, TX, SC, VA, WA, WI
14. MENLO IGRENEMU	Lemon Meringue	Del., Idaho, W.Va.
15. AHECP	Peach	
16. HCCSOTTEBURT	Butterscotch	
17. UPML	Plum	
18. SREWYRABTR	Strawberry	Neb., N.D., S.D., W.Va., S.C., R.I.
19. ANANBA MERCA	Banana Cream	Hawaii, Utah
20. SRERABYRP	Raspberry	