

Family & Consumer Sciences: Baking & Pastry Arts

Resources: *no textbook*; assorted handouts and teacher-produced materials

Adopted April 2018

Major Topics	Concepts	Time Daily classes 41 minutes/36 weeks	The students will know:	Skills	Assessment	Standard(s)
The Basics <ul style="list-style-type: none"> • Safety & sanitation • Reading recipes and terminology • Kitchen math • Common ingredients and their functions • Scaling and measuring • Preparation techniques and Baking methods • Bakeshop equipment and tools 	Characteristics of foodborne pathogens Safe food handling practices Safe kitchen work habits	10 weeks	Identify characteristics of major foodborne illness pathogens, their role in causing illness, potentially hazardous foods and methods of prevention Role of gluten development in the texture and final Importance of precision in measurements Function of ingredients and their impact on baked goods Characteristics of a variety of flours Recognize the accuracy of a recipe and correct where necessary	Demonstrate procedures for safe and secure storage of equipment and tools Demonstrate food safety and sanitation procedures Demonstrate safe food handling and preparation techniques that prevent cross contamination from potentially hazardous foods and food groups Develop a time/work management plan for effective and timely combining of ingredients Determine equivalents, substitutions and conversions of recipes	Safety & Sanitation exam (<i>must be passed with 73% to work in kitchens</i>)	PA FCS Academic Standards: 11.3.12.B National Standards for Family & Consumer Sciences (Nat'l FCS Standards): 8.2.1 8.2.5 8.2.6 9.2.1 9.2.5 9.2.6

				<p>To identify ingredients and understand their function in baking.</p> <p>Recognize standards of quality for baked goods.</p> <p>Expand and reinforce knowledge of weights and measure, recipe conversion, bakeshop equipment, and technical vocabulary</p>		
Topic	Concepts	Time	The students will know	Skills	Assessment	Standard(s)
<p>Quick Breads</p> <ul style="list-style-type: none"> Muffin Method of Mixing Biscuit method of mixing Creaming method of mixing Griddle quick breads 	<p>Basic baking ingredients and their functions/effects</p> <p>Alterations of fat/sugar quantities in baking recipes</p> <p>Baking techniques and processes</p>	3 weeks	<p>Role of gluten development in the texture and final</p> <p>Importance of precision in measurements</p> <p>Function of ingredients and their impact on baked goods</p> <p>Biscuit method works for various applications</p>	<p>Describe the difference between batters and doughs</p> <p>Prepare baking ingredients according to selected recipes</p> <p>To identify ingredients and understand their function in baking.</p> <p>Recognize</p>	Formative and summative assessments	<p>PA FCS: 11.3.12.A 11.3.12.B 11.3.12.G</p> <p>Nat'l FCS: 9.5.1 14.1.2 14.4.3 14.5.3</p>

				standards of quality for baked goods. Expand and reinforce knowledge of weights and measure, recipe conversion, bakeshop equipment, and technical vocabulary. STEM related: science, math, technology, and life literacy (interpersonal skills, teamwork, problem solving, etc)		
Topic	Concepts	Time	The student will know	Skills	Assessment	Standard(s)
Pies and Tarts <ul style="list-style-type: none"> • 1 and 2 crust pies • Tarts • Handling rolling and shaping • Fillings and assembly • Savory applications 	Basic baking ingredients and their functions/effects Alterations of fat/sugar quantities in baking recipes Baking techniques and processes	5 weeks	Role of gluten development in the texture and final Importance of precision in measurements Function of ingredients and their impact on baked goods	Perform accurate measurements of ingredients To identify ingredients and understand their function in baking. Recognize standards of quality for baked goods.	Formative and summarize assessments (test and quizzes, both formal and informal) Vitamin & Mineral project “My Plate” menu adaptation activity	PA FCS: 11.3.12.C 11.3.12.D 11.3.12.E 11.3.12.F Nat’l FCS: 8.5.14 9.3.1 9.3.3 9.3.4 9.3.5 9.3.7 9.4.4 14.3.3

			Different types of pies/sweet tart doughs and their uses	Expand and reinforce knowledge of weights and measure, recipe conversion, bakeshop equipment, and technical vocabulary. Demonstrate the ability to determine the “doneness” in baked goods STEM related: science, math, technology, and life literacy (interpersonal skills, teamwork, problem solving, etc)		
Topic	Concepts	Time	The students will know:	Skills	Assessments	Standard(s)
Yeast Breads and rolls <ul style="list-style-type: none"> Mixing procedures Cool fermentation Hard lean dough 	Heat transfer and the cooking process Basic baking ingredients and their functions/effects Alterations of fat/sugar quantities in baking recipes	5 weeks	How heat energy changes food How does the interaction of ingredients produce chemical changes in food preparation	Explain the action or yeast and other leavening agents in batter and dough mixtures Demonstrate the ability to combine ingredients to produce batters and doughs	Formative and summative assessments Food Labs w/rubrics	PA FCS: 11.3.12.C 11.3.12.D 11.3.12.E 11.3.12.F Nat’l FCS: 8.4.2 8.5.1 8.5.3 8.5.4 8.5.13

<ul style="list-style-type: none"> • Soft medium dough • Sweet rich dough • Laminated dough 	<p>Baking techniques and processes</p>		<p>Why it is important to follow order of directions when preparing a recipe</p> <p>The pros and cons of various bake-/cook-ware materials and their ability to transfer heat</p> <p>How does yeast work</p> <p>Procedures for mixing yeast dough</p> <p>Storing bread/dough for future use</p>	<p>Demonstrate knowledge of portion control and proper scaling and measurement techniques</p> <p>To identify ingredients and understand their function in baking.</p> <p>Recognize standards of quality for baked goods.</p> <p>Expand and reinforce knowledge of weights and measure, recipe conversion, bakeshop equipment, and technical vocabulary.</p> <p>STEM related: science, math, technology, and life literacy (interpersonal skills, teamwork, problem solving, etc)</p>		
Topics	Concepts	Time	The students will know:	Skills	Assessment	Standard(s)
<p>Cookies and Brownies</p> <ul style="list-style-type: none"> • Mixing methods 	<p>Basic baking ingredients and their functions/effects</p>	<p>3 weeks</p>	<p>Role of gluten development in the texture and final</p>	<p>To identify ingredients and understand their</p>	<p>Formative and summative assessments</p>	<p>PA FCS: 11.3.12.C 11.3.12.F 11.3.12.G</p>

<ul style="list-style-type: none"> Types of cookies Handling, scaling and planning 	<p>Alterations of fat/sugar quantities in baking recipes</p> <p>Baking techniques and processes</p>		<p>Importance of precision in measurements</p> <p>Function of ingredients and their impact on baked goods</p> <p>6 Types of cookies and their various mixing methods</p> <p>Storage of cookie dough</p>	<p>function in baking.</p> <p>Recognize standards of quality for baked goods.</p> <p>Expand and reinforce knowledge of weights and measure, recipe conversion, bakeshop equipment, and technical vocabulary.</p>	<p>Gingerbread House project/Contest</p> <p>Food Lab w/ Rubrics</p>	<p>Nat'l FCS: 8.5.10 8.5.12</p>
Topic	Concepts	Time	The students will know:	Skills	Assessment	Standard(s)
<p>Cakes</p> <ul style="list-style-type: none"> Mixing methods Planning and baking Icing and Frosting Basic decorating 	<p>Proper measurement and knowledge of portion control</p>	<p>5 weeks</p>	<p>How does the interaction of ingredients produce chemical changes in food preparation</p>	<p>Predict the amount of time required for meal preparation and plan a schedule for meal preparation</p> <p>To identify ingredients and understand their function in baking.</p> <p>Recognize standards of quality for baked goods.</p> <p>Expand and reinforce knowledge of weights and</p>	<p>Formative and summative assessments</p> <p>Food Lab w/ Rubrics</p>	<p>PA FCS: 11.3.12.C 11.3.12.D 11.3.12.E 11.3.12.F</p> <p>Nat'l FCS: 8.5.2 8.5.5 8.5.6 8.5.7</p>

				<p>measure, recipe conversion, bakeshop equipment, and technical vocabulary.</p> <p>STEM related: science, math, technology, and life literacy (interpersonal skills, teamwork, problem solving, etc)</p>		
<p>Custards and Creams</p> <ul style="list-style-type: none"> • Stirred vs. Baked • Applications on baked goods 		2 weeks		<p>Demonstrate an understanding of dairy and egg products as ingredients used in baking</p> <p>Apply cooking principles to prepare dairy and egg products used in recipes To identify ingredients and understand their function in baking.</p> <p>Recognize standards of quality for baked goods.</p> <p>Expand and reinforce knowledge of weights and measure, recipe</p>	<p>Formative and summative assessments</p> <p>Food Labs w/rubrics</p>	<p>PA FCS: 11.3.12.C 11.3.12.D 11.3.12.E 11.3.12.F</p> <p>Nat'l FCS: 8.5.3 9.7.5 9.7.6</p>

				conversion, bakeshop equipment, and technical vocabulary.		
Short Dough/Pastry elements <ul style="list-style-type: none"> Doughs-pate a choux, puff pastry, phyllo Meringues 		2 weeks	Applications of each type of dough/pastry Various meringues: American. Italian and Swiss	To identify ingredients and understand their function in baking. Recognize standards of quality for baked goods. Expand and reinforce knowledge of weights and measure, recipe conversion, bakeshop equipment, and technical vocabulary.	Formative and summative assessments Food Labs w/rubrics	PA FCS: 11.3.12.C 11.3.12.D 11.3.12.E 11.3.12.F Nat'l FCS: 8.5.3 8.5.4 8.5.10 8.5.12 9.7.5 9.7.6
Final project		1 week			5 hour practical: yeast bread, decorated and filled cake, pate a choux	PA FCS: 11.3.12.C 11.3.12.D 11.3.12.E 11.3.12.F Nat'l FCS: 8.2.5 8.3.1 8.3.6 8.5.3 8.5.4 8.5.10

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