

ACTIVITY 3.1 DEFINITIONS

Directions

Complete the following definitions for the key terms.

Key Term	Definition
Pasteurization	
Homogenization	
Lactose intolerance	
Casein	
Cream	
Fermentation	









ACTIVITY 3.1 DEFINITIONS (continued)

Probiotic Smoke point Butter substitute Whey Curdling Unripened Ripened Processed cheese Albumen Chalazae Coddled		D C ::-
Smoke point Butter substitute Whey Curdling Unripened Ripened Processed cheese Albumen Chalazae	Key Term	Definition
Smoke point Butter substitute Whey Curdling Unripened Ripened Processed cheese Albumen Chalazae	Probiotic	
Butter substitute Whey Curdling Unripened Ripened Processed cheese Albumen Chalazae		
Butter substitute Whey Curdling Unripened Ripened Processed cheese Albumen Chalazae		
Butter substitute Whey Curdling Unripened Ripened Processed cheese Albumen Chalazae		
Whey Curdling Unripened Ripened Processed cheese Albumen Chalazae	Smoke point	
Whey Curdling Unripened Ripened Processed cheese Albumen Chalazae		
Whey Curdling Unripened Ripened Processed cheese Albumen Chalazae		
Curdling Unripened Ripened Processed cheese Albumen Chalazae	Butter substitute	
Curdling Unripened Ripened Processed cheese Albumen Chalazae		
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Unripened Ripened Processed cheese Albumen Chalazae		
Ripened Processed cheese Albumen Chalazae	Curdling	
Ripened Processed cheese Albumen Chalazae		
Ripened Processed cheese Albumen Chalazae		
Ripened Processed cheese Albumen Chalazae	Unrinanad	
Processed cheese Albumen Chalazae	Olimpened	
Processed cheese Albumen Chalazae		
Processed cheese Albumen Chalazae		
Albumen Chalazae	Ripened	
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Albumen Chalazae	Processed cheese	
Chalazae	110000000	
Chalazae		
Chalazae		
	Albumen	
	Chalazae	
Coddled		
Coddled		
Coadlea	C. III. I	
	Coddled	









ACTIVITY 3.1 DEFINITIONS (continued)

Key Term	Definition
Ramekins	
Shirred eggs	
Poached eggs	
Sunny-side up	
Over easy	
Basted eggs	
Omelets	
Frittatas	
Quiche	
Soufflés	
Pooled eggs	









ACTIVITY 3.2 TYPES OF MILK

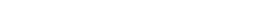
Directions

Complete the table by giving descriptions of the types of milk listed below.

TYPES OF DAIR	Y MILK	
Type of Milk	Fat Content	Description
Whole	At least 3.25%	
Low fat	Available in 1% and 2%	
Skim	Less than 0.5% (usually 0.1%)	
Buttermilk	Depends on the type of fresh milk used	
Evaporated	At least 6.5%	
Condensed	At least 8.5%	
UHT (ultra-high temperature)	Depends on the type of fresh milk used	









ACTIVITY 3.2 TYPES OF MILK (continued)

TYPES OF DAIRY MILK (continued)		
Type of Milk	Fat Content	Description
Powdered	Depends on the type of fresh milk used	
Lactose-free milk	Depends on the type of fresh milk used	

Type of Milk	Fat Content
III L3 OI I LAIN	II DASED MILK

TYPES OF PLAN	TYPES OF PLANT-BASED MILK		
Type of Milk	Fat Content	Description	
Soy milk (nondairy)	Four grams of fat per eight-ounce serving (fortified)		
Rice milk (nondairy)	Three grams or less per eight-ounce serving		
Almond milk (nondairy)	Two to three grams per eight-ounce serving		
Coconut milk (nondairy)	Thick: 20% to 22% Thin: 5% to 7%		







ACTIVITY 3.3 WHIP IT!

Directions

Whip various types of cream into whipped cream using the information below regarding fat in cream and how much sugar and vanilla extract to add. What are your findings? Is there a correlation between the amount of fat and the quality of whipped cream? Record your observations and provide a summary.

Note: For each quart of cream, add 1 cup of sugar and 1 teaspoon vanilla extract.

Type of Cream	Amount of Fat
Light whipping cream	At least 30% but less than 36%
Heavy whipping cream	36% to 38%
Very heavy whipping cream	40%
Light cream	18% to 30%
Half-and-half	10.5% to 18%









ACTIVITY 3.3 WHIP IT! (continued)

Type of Cream	Amount of Fat (%)	Observations during Whipping Process	Time to Completion	Description of Resulting Product
Summary and Cond	clusions			









ACTIVITY 3.4 CULTURE SHOCK

Directions

Complete the following table on cultured dairy items. Then, perform research on how to make buttermilk, yogurt, sour cream, and crème fraîche. Record your findings into a *mise en place* plan. Complete the activity with a summary response.

Type of Cultured Dairy Item	Amount of Fat	Description
Buttermilk		
Yogurt		
Sour cream		
Crème fraîche		









Buttermilk

Ingredients	Tools	Equipment	Notes

Steps	Timing and Notes







Yogurt

Ingredients	Tools	Equipment	Notes

Timing and Notes









Sour Cream

Ingredients	Tools	Equipment	Notes

Steps	Timing and Notes









Crème Fraîche

Creme Fraiche				
Ingredients	Tools	Equipment	Notes	
Steps		Timing and Notes		









Summary Question			
How does food safety conflict with some of the preparation steps for cultured dairy?			









ACTIVITY 3.5 | SAY CHEESE

Directions

Complete the following charts on the parts of cheese, how to make cheese, and the varieties of cheese.

Parts of cheese	
1	
2	
3	

How to Make Cheese	
Step 1:	
Step 2:	
Step 3:	







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ACTIVITY 3.5 SAY CHEESE (continued)

Variety of Cheese	Characteristics	Examples
Unripened, fresh		
Soft-ripened		
Semisoft, ripened		
Blue-veined, mold-ripened		
Firm, ripened		
Very hard, ripened		
Pasta filata		









ACTIVITY 3.6 CHEESEMONGER LAB

Directions

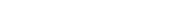
Research the techniques for making ricotta cheese and a basic rennet cheese. Design an experiment to make the two cheeses. Begin by creating a *mise en place* plan (some items may need to be specially ordered to perform this lab), with step-by-step instructions, ingredients, and equipment/tools. Then execute the two procedures. Keep notes the the process, and complete the lab with a summary of the processes and results.

Standardized Recipe

Name:
Yield:
Ingredients:
Portion size:
Temperature, time, and equipment:
Step-by-step directions:
Siep-by-siep directions.
Nutrition information:









Ingredients	Tools	Equipment	Notes
Steps		Timing and Notes	
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Standardized Recipe

Name:	
Yield:	
Ingredients:	
Portion size:	
Temperature, time, and equipment:	
Step-by-step directions:	
Nutrition information:	









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Ingredients	Tools	Equipment	Notes
Stens		Timing and Notes	
Steps		Timing and Notes	
Steps		Timing and Notes	
Steps		Timing and Notes	
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Steps		Timing and Notes	
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Steps		Timing and Notes	









Ingredient	Unit Cost and Size	Amount in Recipe	Calculate the Percent of Unit Cost	Total Ingredient Cost	Total Ingredient Cost







Ingredient	Unit Cost and Size	Amount in Recipe	Calculate the Percent of Unit Cost	Total Ingredient Cost	Total Ingredient Cost

Lab Report		
Summary Response		





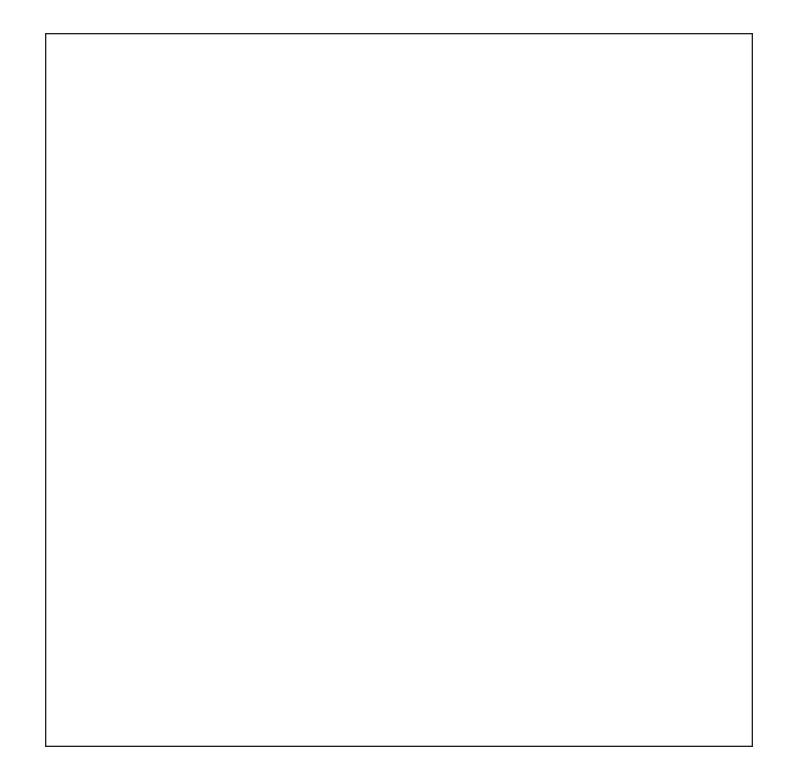




ACTIVITY 3.7 LOUIS PASTEUR

Directions

Research Louis Pasteur's contributions to science in regard to the restaurant and foodservice industry. Write an essay on your findings.



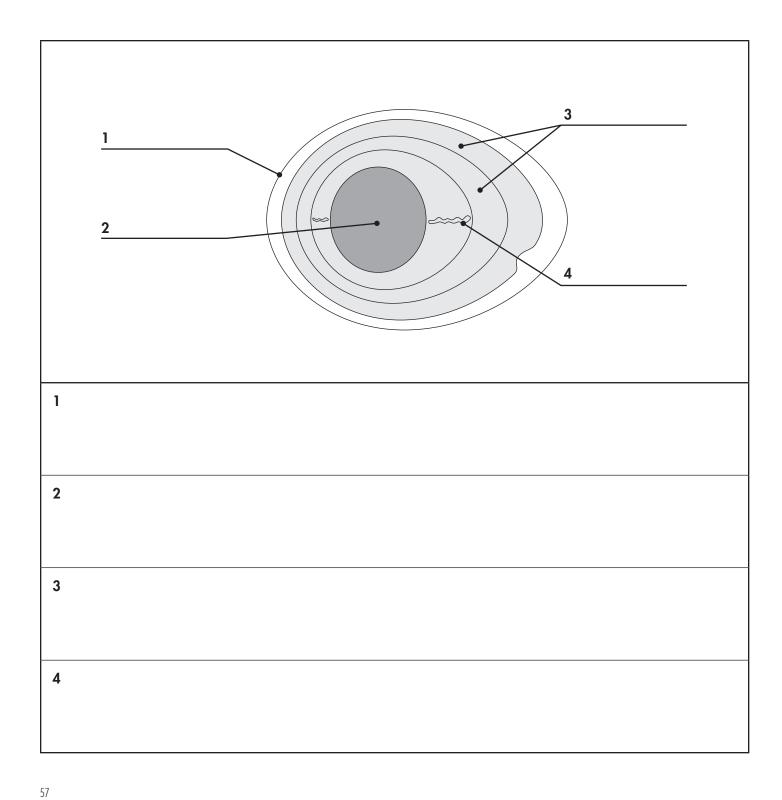




ACTIVITY 3.8 THE INCREDIBLE EGG

Directions

Label the parts of the egg below, then define each in the chart provided.









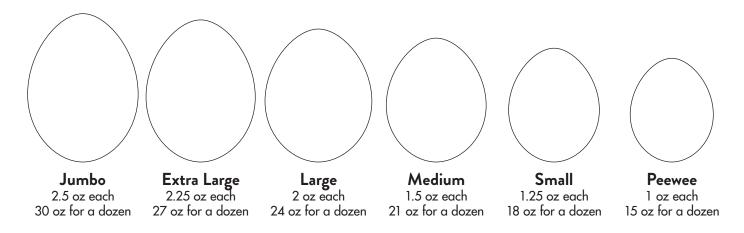


ACTIVITY 3.9 EGG IT ON

Directions

Recipes often call for a particular size of egg. However, the egg size in a recipe can be converted to equivalent ounces and to other egg sizes. For example, a recipe may call for large eggs, but you may only have jumbo eggs available.

Solve the problems below by using the chart.



A quiche calls for 12 jumbo eggs. Find the number of ounces the recipe requires, then convert for each egg size to determine the number of eggs needed.

Egg Size	Number of Eggs	Total Ounces Recipe Requires	Number of Dozen Required
Extra large			
Large			
Medium			
Small			
Peeweee			









ACTIVITY 3.9 EGG IT ON (continued)

2 A cookie recipe calls for 20 jumbo eggs. Find the number of ounces the recipe requires, then convert for each egg size to determine the number of eggs needed.

Egg Size	Number of Eggs	Total Ounces Recipe Requires	Number of Dozen Required
Extra large			
Large			
Medium			
Small			
Peeweee			

3 A cake calls for a total of 32 jumbo eggs for a large batch. Find the number of ounces the recipe requires, then convert for each egg size to determine the number of eggs needed.

Egg Size	Number of Eggs	Total Ounces Recipe Requires	Number of Dozen Required
Extra large			
Large			
Medium			
Small			
Peeweee			







ACTIVITY 3.10 THE INCREDIBLE EGG LAB

Directions

Eggs can be prepared in many ways. Provide the steps and *mise en place* for the following preparations. Record notes during the process, and finish with a summary of the processes. For the fried egg, try cooking to over easy, over medium, over hard, and sunny-side up. Pay special attention to the timing for each.

Egg Preparation
Simmering or Hard Cooking Eggs in Shell
Baking Eggs
Cooking Shirred Eggs
Poaching Eggs
Scrambling Eggs
Making a Fried Egg
Making a Rolled Omelet
Making a Flat Omelet (Frittata)
Making Soufflés







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ESSENTIAL SKILLS: SIMMERING OR HARD COOKING EGGS IN SHELL

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Ingredients	Tools	Equipment	Notes
Steps		Timing and Notes	

Steps	liming and Notes









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ESSENTIAL SKILLS: BAKING EGGS

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Ingredients	Tools	Equipment	Notes
Steps		Timing and Notes	









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ESSENTIAL SKILLS: COOKING SHIRRED EGGS

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Ingredients	Tools	Equipment	Notes
Steps		Timing and Notes	

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ESSENTIAL SKILLS: POACHING EGGS

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Ingredients	Tools	Equipment	Notes
Steps		Timing and Notes	
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ESSENTIAL SKILLS: SCRAMBLING EGGS

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Ingredients	Tools	Equipment	Notes
Steps		Timing and Notes	

Jieps	Tilling and Notes









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ESSENTIAL SKILLS: MAKING A FRIED EGG

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Ingredients	Tools	Equipment	Notes
Steps		Timing and Notes	
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ESSENTIAL SKILLS: MAKING A ROLLED OMELET

1	_	
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5		
6		

Ingredients	Tools	Equipment	Notes
Steps		Timing and Notes	

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ESSENTIAL SKILLS: MAKING A FLAT OMELET (FRITTATA)

1	
2	
3	
4	
5	
6	

Ingredients	Tools	Equipment	Notes
Steps		Timing and Notes	

Steps	Timing and Notes









排	ESSENTIAL SKILLS: MAKING S	SOUFFLÉS

1		
2		
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Ingredients	Tools	Equipment	Notes
Steps		Timing and Notes	

Sieps	Tilling and Notes









Lab Report Summary Response	

