

# Understanding Standardized Recipes



#### READING PREVIEW

#### **Key Concepts**

- Learning how kitchens find recipes
- Understanding the sections of a standardized recipe
- Reading recipes
- Understanding measurement conventions and systems
- Understanding measuring techniques

### Vocabulary

- metric system
- portion
- recipe
- standardized ingredients
- standardized recipe
- tare weight
- volume
- yield

Recipes do more than tell you how to make a dish. They help you select ingredients and equipment, organize your work, and track food costs.

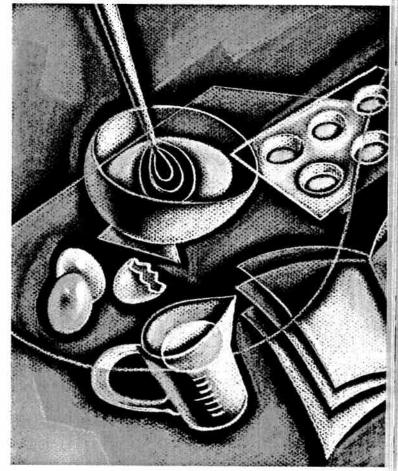
> Katherine Polenz The Culinary Institute of America

### Finding Recipes

A recipe is a written record of the ingredients and preparation steps needed to make a particular dish.

Recipes can be grouped for easy retrieval in a recipe category. Kitchens, magazines, cookbooks, and chefs create their own categories. Recipe categories could be based on regional dishes, ethnic dishes, dishes based on the main ingredient, and the part of a menu for which the dish is suited.

Chefs collect and adapt recipes from a number of sources (including collecting them from other chefs and restaurants).



### **Common Recipe Categories**

### Organizing Idea Possible Recipe Categories

Regional or Ethnic Recipes Mediterranean, Texas, Russian

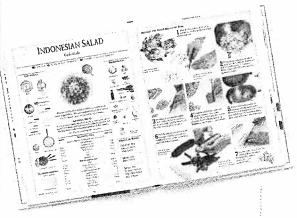
Historic Recipes Medieval England, Colonial America

Recipes Using a Specific Main Ingredient Fish, Chicken, Broccoli, Mushrooms

Recipes for Specific Parts of a Menu Starters, Main Dishes, Side Dishes, Desserts

Recipes for Specific Types of Meals Breakfasts, Budget Lunches, Quick Dinners

Recipes Using a Specific Cooking Method Stew, Stir Fry, Barbecue



Five common sources of recipes are:

- Cookbooks. Among the best sellers in publishing, cookbooks are available in bookstores and libraries. Most cookbooks specialize in a specific category of dishes.
- **Periodicals.** Newspapers and magazines that target the general public, gourmets, and restaurateurs often feature recipes.
- \* Food Producers and Manufacturers. It makes sense that the producers of food and the manufacturers of food-service equipment would offer recipes to encourage the use of their products.
- Cooking Contests. A variety of organizations sponsor cooking contests. They generally publish winning recipes in cookbooks, in periodicals, and on the Internet.
- **The Internet.** The Internet contains many free recipes and recipe databases, often from cooking channel shows.



What are recipe categories?

### Standardized Recipes

A **standardized recipe** is a recipe designed to suit the needs of an individual kitchen. Using and writing standardized recipes is a big part of a professional chef's work.

**Purpose of Standardized Recipes** Standardized recipes help food-service businesses because standardized recipes:

- Support consistent quality and quantity.
- Encourage efficient purchasing and preparation.
- Reduce costs by eliminating waste.

## CULINARY SCIENCE

### Recipes on the Internet

The Internet is such a big source of cooking information that a person hardly knows where to begin. Of course, typing keywords into a search engine will produce a host of suggestions. (Try entering "tomato soup" in the search box at www.google.com or www.yahoo.com. You'll probably find over 1 million references!)

Visiting well-established Web sites can help you see how information is organized. One such site is www.epicurious.com. Epicurious is affiliated with Condé Nast, the publisher of the foodoriented magazines Gourmet and Bon Appétit. Epicurious, which bills itself as "the world's best recipe collection," started building its database of menus in 1994. The name "Epicurious" is partially drawn from "Epicurus," the Greek philosopher. The term "Epicure," someone who enjoys the finest



A Epicurious Web site

things, comes directly from his name, as does the term "Epicurean."

#### Research

Visit a culinary Web site like www.epicurious.com. Investigate their recipe categories. Print out three recipes, each from a different recipe category. Describe the standardized recipe format used by Epicurious.

Enable the wait staff to answer guests' questions accurately and honestly. (For example, the type of oil used in a dish may matter very much to a guest with allergies.)

Sections of a Standardized Recipe Standardized recipes may include a number of sections. The red sections listed below appear in most standardized recipes.

- Title. The title of the recipe identifies the food item or dish.
- Recipe Categories. By identifying possible recipe categories, you can group and organize recipes in a way that makes retrieval easier. Sometimes recipes for simple items or items used in other recipes are classified as basic recipes. For example, a restaurant might have a basic recipe for boiled rice, baked potatoes, or a sauce.
- Yield. The yield of a recipe describes the measured output, expressed as one or more of the following: the total weight, the total volume, or the total number of portions. A portion is the serving size for one person expressed in pieces, weight, or volume.
- Ingredients List. This is one of the most important elements of a recipe. Ingredients are listed in the order in which they are needed. The ingredients list contains the name and amount of the ingredients you need. It may include advance preparation required (for example, trimming, peeling, dicing, melting, and cooling). It may also indicate a specific variety or brand.

### FOCUS ON NITRETON

### **Learning from Recipes**

Recipes often list nutritional information about each dish. You can see how ingredients translate into calories, fat, carbohydrates, protein, vitamins, and minerals.



## Blueberry Muffins

#### YIELD: I Dozen Muffins

SERVING SIZE: 1 Muffin

#### Ingredients

16 oz (3¾ cups) All-purpose flour (plus 2 Tbsp to coat berries)

1½ tsp Double-acting baking powder

½ tsp Salt

¼ tsp Nutmeg, ground

4 oz (½ cup) Butter at room temperature

8 oz (1 cup) Sugar 1 Egg, large 6 fl oz Milk

½ tsp Vanilla extract

1 cup Blueberries, washed and patted dry

Optional Cooking spray

#### Equipment

- Appliances: Oven, standing mixer with paddle attachment
- Cookware: Muffin tins, paper muffin tin liners, cooling rack
- Hand Tools: Scale (optional), measuring cups and spoons, sifter, mixing bowls, whisk, rubber spatula, 2-oz scoop

#### Method

- 1. Preheat the oven to 400°F.
- 2. Line muffin tins with paper liners or spray them lightly with cooking spray.
- 3. Sift together 16 oz flour with the baking powder, salt, and nutmeg.
- 4. Blend the milk, egg, and vanilla extract in a separate bowl.
- 5. In a standing mixer with a paddle attachment, cream together the butter and sugar until very light and smooth, about 2 minutes.
- Add the flour mixture in three additions, alternating with the liquid ingredients, mixing on low speed and scraping down the bowl to blend the batter evenly.
- 7. Increase the speed to medium and mix until the batter is very smooth, another 2 minutes.
- 8. Mix 2 Tbsp flour with berries to coat them evenly.
- 9. Fold the blueberries into the batter, distributing them evenly.
- 10. Fill each muffin cup \( \frac{1}{2} \) full with batter using the 2-oz scoop.
- 11. Bake until the top of the muffin springs back when lightly pressed, 18 to 20 minutes.
- *12.* Cool the muffins in the muffin pan on cooling racks for 5 minutes. Then remove them from the muffin pan and finish cooling them on the rack.

Serve warm or at room temperature. If desired, remove paper liner from muffin before serving. Store in an air-tight container with lid.



### Recipe Categories

Muffins, Breakfast Foods, Blueberries



#### Chef's Notes

- Coating blueberries with flour keeps them suspended in the batter so they don't all fall to the bottom of the muffin.
- 2. Shake baking powder before using. Ingredients can separate and need to be mixed for muffins to rise properly.

#### Potentially Hazardous Foods

- Egg
- Milk

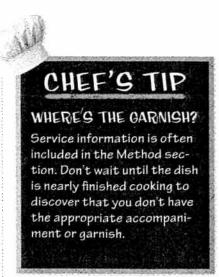
#### HACCP

• Keep cold ingredients chilled below 41°F.

Nutritio	n
Calories	195
Protein	3 g
Fat	9 g
Carbohydrates	26 g
Cholesterol	39 mg

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- **Equipment.** A recipe will often list the equipment required for preparing, cooking, storing, holding, and serving an item. This information may be a separate list or may be indicated in other parts of the recipe. Often a recipe will not specify any particular equipment and you will need to use your understanding of basic kitchen procedures to pick appropriate equipment.
- Method. This portion of a recipe includes the detailed steps required to make the dish. It may also list appropriate equipment and critical control points for safe food handling.
- **Service.** A recipe may include portioning information (if this information is not already listed in the Yield section of the menu), finishing and plating instructions, appropriate accompaniments (side dishes, sauces, and garnishes), and proper service temperatures.





### Weight or Volume?

On the Blueberry Muffin recipe on the previous page did you notice that there are two amounts shown for the flour, butter, and sugar? That's because the first measurement is for weight and the second measurement is for volume. But how do you know when a measurement is a weight and when it is a volume?

In a standardized recipe, dry ingredients that are more than a few tablespoons are usually shown by weight, not by volume. So, for example, the 16 ounces of flour in the blueberry muffin recipe on the next page is one pound of flour (16 ounces = 1

pound, see "Weight Measurements" on page 147). However, the blueberry muffin recipe also shows the equivalent volume measurement of 33/4 cups. The rule is: When a measurement for a dry ingredient is in ounces, it's a weight measurement. If you don't have a scale, you need to convert the weight into volume (and this will differ for every ingredient).

#### Research

Weigh 16 oz of flour and 16 oz of puffed rice. Measure the volume of these equal weights. Can you see why it is important not to confuse a weight measure with a volume measure?

• **HACCP.** As you learned in the first chapter of this book, HACCP requires identification of critical control points, specific points in the process of food handling where you can prevent, eliminate, or reduce a hazard. A recipe may list these critical control points (CCPs) separately or they may be included in the Method or Service sections. CCPs sometimes occur in the list of ingredients when potentially hazardous foods such as eggs or milk are used. Often when the recipe mentions temperatures and times for preparation, holding, storage, and reheating, a CCP is involved.



What elements appear in all standardized recipes?

### FOCUS ON THE T

#### **Critical Control Points**

Before you begin preparation, check the Method section for critical control points where specific temperatures or careful handling is essential to food safety.

### Reading Recipes

It is important to read a recipe before you begin preparation. This helps you work efficiently. You can plan your work and prepare the dish correctly. To understand and apply standardized recipes, use the "PRN" method for reading recipes.

### PRN Method for Reading Recipes

Preview To get the big picture.

Read To focus carefully on the

specifics of the recipe.

Note Write any adjustments and

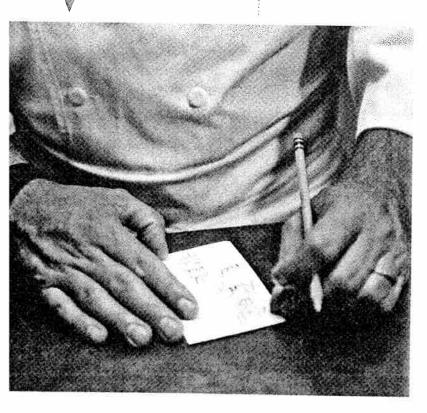
plans for preparation.

FIGURE 5-1
Writing Notes

A chef writes notes about recipe adjustments or plans for preparation.

Inferring Why would a chef write down notes about adjustments to a recipe rather than just remembering the changes? Some of the questions you may need to ask yourself as you read through a recipe are:

- **Yield.** Does the recipe make enough or too much? (See the next section of this chapter to change the yield of a recipe.)
  - Ingredients. Are you familiar with all the ingredients? Do you have all the ingredients? If not, can substitutes be used? Are you familiar with the appropriate pre-preparation of all the ingredients? Some recipes may not list all the pre-preparation steps; they rely on your knowledge to make appropriate choices.
  - **Method.** Are you familiar with the techniques listed in the Methods section? Do you have all the necessary equipment? If not, is there an alternate method and will further adjustments be required in timing? (Chapter 8 will describe most cooking methods called for in standardized recipes.)
  - Timing. Do you have to adjust the recipe's timing? Which ingredients have to be prepared in advance? Do you need to pre-heat equipment?



Serving and Holding. What do you do with the finished product? Do you have the appropriate accompaniment or garnish? Check any service and critical control point instructions.

If any of the questions you asked during your preview and read-through make you adjust the recipe in any way, jot down the changes you will make in the recipe.



Describe the PRN method for understanding a recipe.

### Measurement Conventions and Systems

Measurement Conventions Recipe ingredients are listed in a recipe according to one of three measuring conventions: count, volume, or weight.

- Count. When an ingredient is listed in the recipe based on the number of whole items, it is measured by count. Count is good for measuring standardized ingredients, those ingredients that have been processed, graded, or packaged according to established standards. Eggs, shrimp, and butter, for instance, are standardized ingredients. For nonstandardized ingredients, count is less accurate. The weight of a peeled and cored apple, for example, depends on the size of the apple and the amount of waste. Similarly, one chef's small garlic clove might be another's
- **Volume.** The measurement of the space occupied by a solid, liquid, or gas is its volume. Volume measurements are best for measuring liquids and small amounts of dry ingredients such as spices or baking powder. Hand tools such as measuring cups, measuring spoons, ladles, and scoops are used to measure the volume of an ingredient.

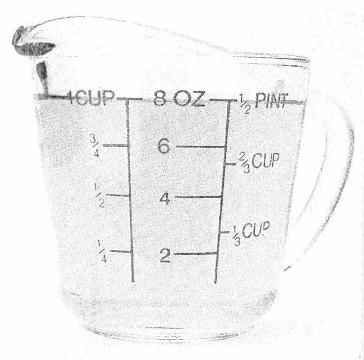
chef's medium garlic clove.

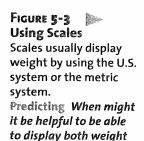
Weight. The weight of ingredient is the measurement of its mass, or heaviness. Scales can weigh any ingredient, liquid or dry. Weight measures are typically preferred to volume measures because weight can be measured with greater accuracy.

FIGURE 5-2 Reading a Clear Measuring Cup Read a glass measuring cup on a flat surface. Read with the mark at eye level.

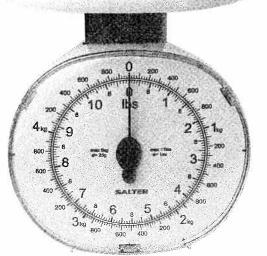
Drawing Conclusions Why do you think volume measurements might be less accurate than weight measurements?







systems?



Measurement Systems Weight and volume may be measured by using either the U.S. system or the metric system.

In the U.S. system, volume is measured in terms of teaspoon (tsp), tablespoon (Tbsp), fluid ounce (fl oz), cup (c), pint (pt), quart (qt), and gallon (gal). In the metric system, volume is measured in terms of milliliter (ml), and liter (l).

In the U.S. system, weight is measured in terms of ounce (oz) and pound (lb). In the metric system, weight is measured in terms of milligram (mg), gram (g), and kilogram (kg).

Some recipes indicate quantities with very simplistic abbreviations. For example, one teaspoon might appear as 1 tsp or simply 1 t.

### **Volume Measurements**

Volume Measure	Metric Equivalent*	U.S. Equivalents*
U.S. SYSTEM	tanti katan ketang dan dan tantan tantan tanggah kandaran seperatuan tantan tantan tantan tantan tantan tantan	PRESIDENTIALA SEE TOO SEATA AGGA AGGA COMBANA COMBANA AGGA COMBANA AGGA AGGA AGGA AGGA AGGA AGGA AGGA
1 teaspoon (tsp)	5 ml	1/6 fl oz
1 tablespoon (Tbsp)	1 tablespoon (Tbsp) 15 ml	
1 fluid ounce (fl oz)	30 ml	2 Tbsp or 6 tsp
1 cup	< 1/4	8 oz <i>or</i> 16 Tbsp
1 pint (pt)	< 1/2	2 cups or 16 fl oz
1 quart (qt)	< 1   2 pt <i>or</i> 32 fl oz	
1 gallon (gal)	> 33/4	4 qt <i>or</i> 128 fl oz
METRIC SYSTEM	K alumi mayer summer see	
1 milliliter (ml)	1 ml	1/s tsp or 0.0338 fl oz
1/4 liter	250 ml	8.5 fl oz <i>or</i> > 1 cup
1 liter (I)	1000 ml	1.1 qt

# **Weight Measurements**

Weight Measure	Metric Equivalent*	U.S. Equivalents*	
U.S. SYSTEM		an and a second second second	
1 ounce (oz)	28 g		
⅓ pound	112 g	4 oz	
½ pound	224 g	8 oz	
³/₄ pound	336 g	12 oz	
1 pound (lb)	454 g	16 oz	
METRIC SYSTEM	en e	COMPANY TO A STANLAND STANLAND SALE OF A MANAGEMENT PART OF THE STANLAND SALE OF THE SALE	
1 milligram (mg)	0.001 g		
1 gram (g)	1 g		
1/8 kilogram	125 g	4.4 oz > 1/4 lb	
1/4 kilogram	250 g	8.8 oz > ½ lb	
½ kilogram	500 g	17.6 oz > 1 lb	
1 kilogram (kg)	1000 g	2.2 lb	

One tablespoon might appear as 1 Tbsp or 1 T. One cup might appear as 1 c. One gallon might appear as 1 gal or 1 G.



About how many grams are in a 1/4-pound hamburger patty? About what fraction of a kilogram is a 1-pound loaf of bread?

### Measurement Techniques

Use these techniques to assure accuracy.

- **Dry Volume.** Overfill the measuring container and scrape off any excess. Some recipes call for packing (compressing) ingredients such as brown sugar.
- \* Liquid Volume. Set a clear measuring cup or other clear container on a flat surface. Reading with your eye at the level of the mark, fill to the mark.
- Weight. Choose a scale that suits the size of your food. Some scales are best for measuring ounces, others for pounds.

When using a food scale, be sure to account for the tare weight, the weight of the container holding the food. Place the container on the scale and reset the scale to zero. If your scale cannot be reset, note the tare and subtract it after weighing the food.

### FOCUS ON SANITATION

### Measuring Up

To avoid cross-contamination, clean and sanitize measuring tools between uses. Never let food come in direct contact with the scale. Always use a food tray, container, paper barrier, or plastic wrap on the scale.

### **Measurement Techniques**

et wit skower et with by se	Measurement	Technique	Tools
1. 1. Sec. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	Dry Volume	<ol> <li>Overfill container.</li> <li>Scrape off excess.</li> </ol>	Measuring cups, measuring spoons
19. 18. 19. 19. 19. 19. 19. 19. 19. 19. 19. 19	Liquid Volume	<ol> <li>Set container on flat surface.</li> <li>Fill to correct mark.</li> <li>Inspect with eye level at mark.</li> <li>Adjust as needed.</li> </ol>	Graduated containers, measuring cups, measuring spoons
	Weight	<ol> <li>Set the tare.</li> <li>Place food in container on scale.</li> <li>Read weight and add or remove food.</li> </ol>	Scale, food trays or containers to hold food on scale



How would you measure  $\frac{1}{2}$  cup of flour?  $\frac{1}{2}$  pound of flour?

### 5.1 ASSESSMENT

### Reviewing Concepts

- **1.** What is a recipe category? Give three examples of recipe categories.
- **2.** What sections appear in most standardized recipes?
- **3.** What are the steps in the PRN method for reading recipes?
- **4.** How many quarts are in a gallon? Pints in a quart? Cups in a pint? Fluid ounces in a cup?
- **5.** What is tare weight and why is it important in weighing ingredients for a standardized recipe?

#### Critical Thinking

- **6.** Classifying List two foods that fit in more than one recipe category, and list the categories.
- 7. Inferring Explain how standardized recipes encourage efficient purchasing and preparation.
- **8.** Solving Problems About how many liters are in a gallon?

#### TEST KITCHEN

Working in groups, record both the metric and U.S. weights of ¼ cup of each of the following: flour, white sugar, peanuts, popcorn, cooked white rice, dry white rice, water, fruit juice, and honey. Discuss the differences in weight between identical volume measurements. Discuss any differences in recorded weights by different groups.

### LANGUAGE ARTS

### Writing a Standardized Recipe

Write a standardized recipe for a simple dish you know how to prepare. Include all the sections that typically are used in a standardized recipe and as many other sections as you can.