

Food Selection and Preparation

A Laboratory Manual

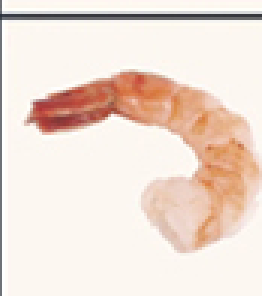
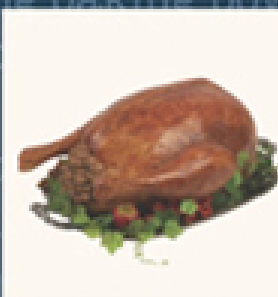
SECOND EDITION

Frank D. Conforti

YELLOW CAKE

- 1 cup cake flour
 - 2/3 cup granulated sugar
 - 1/4 teaspoon salt
 - 1 1/2 teaspoons double-acting baking powder
 - 1/4 cup shortening, butter, or margarine
 - 1/2 cup milk
 - 1/2 teaspoon vanilla extract
 - 1 large egg, room temperature
1. Preheat oven to 350°F. Set position of the oven rack to the bottom of an 8-inch round cake pan.

2. Cut waxed paper to fit the bottom of the cake pan.
3. Grease only the waxed paper.



Contents

Cover

Half Title page

Title page

Copyright page

Preface

Acknowledgments

Laboratory 1: Measuring Techniques

I. Nonmetric Measure of Volume

II. To Learn Correct Techniques for Measuring Ingredients

III. Water and Thermometry

IV. Application of Measuring Techniques: Cookies

**Laboratory 2: Food Preservation:
Canning and Freezing**

I. Observe and Learn How to Use Utensils and Equipment Commonly Used in Canning

II. Foods To Be Packed and Processed

III. Freezing of Fruits and Vegetables

Laboratory 3: Starch and Cereal Cookery: Role of Gelatinization and Gelation

I. Starch Principles

II. Cereal Cookery

Laboratory 4: Quick and Yeast Breads: Role of Manipulation and Gluten Formation in Doughs

I. To Evaluate Factors Which Affect the Quality of
Muffins

II. To Evaluate Factors Which Affect the Quality of
Biscuits

III. To Identify the Gluten-Forming Properties of
Various Wheat Flours

IV. To Study Factors Which Affect the Quality of
Yeast Bread

Laboratory 5: Shortened- and Foam- Style Cakes

I. Shortened-Style Cake

II. To Demonstrate the Effect of Changing the pH
in Chocolate Cake Batters

III. Foam-Style Cake

Laboratory 6: Pastry, Cream Puffs, and Popovers

- I. To Learn and Observe How Manipulation and Steam Will Affect Cream Puffs and Popovers
- II. To Determine Which Fat Contributes Both Tenderness and Flakiness in a Pie Crust Through Proper Manipulation

Laboratory 7: Fruit Selection and Cookery

- I. To Study the Prevention of Browning in Fresh Fruit Through the Use of Antioxidants
- II. To Identify the Factors That Influence the Quality of Cooked Apples
- III. To Observe Fruits That Have Enough Pectin to Form a Gel when Sugar and Water are Added
- IV. To Observe the Variety of Ways Fruits Can Be Prepared

Laboratory 8: Vegetables

- I. To Study the Effect of Heat and pH on Pigments and Texture in Vegetables
- II. To Prepare Vegetables in a Variety of Ways and to Recognize Quality Parameters in Selection and Preparation
- III. Vegetable Preparation

Laboratory 9: Salads

- I. Appetizer Salad
- II. Dinner Accompaniment Salads
- III. Main Dish Salads
- IV. Dessert Salads

Laboratory 10: Fats and Emulsions

- I. To Show the Effect of Frying Temperature on Fat Absorption During Deep Fat Frying
- II. To Evaluate Fats According to Color, Flavor, Aroma and to Be Able to Detect Rancidity in a Fat
- III. To Become Familiar with Various Emulsions and the Effect That the Emulsifier Has on Stabilizing the Emulsion

Laboratory 11: Gelatin

- I. To Compare Products Made with Unflavored Gelatin and the Available Commercial Mix
- II. To Identify and to Become Familiar with the Different Uses of Gelatin

Laboratory 12: Egg Cookery

- I. To Observe the Effect of Aging on the Raw Egg
- II. To Become Familiar with Various Methods to Cook Eggs
- III. To Understand How Heat Affects Gelation of Egg Proteins
- IV. To Observe the Use of Egg White Foams in Food Preparation
- V. Miscellaneous Egg Cookery

Laboratory 13: Milk and Cheese

- I. To Become Familiar with Various Milk Products
- II. To Show the Effects of Temperature upon the Clotting of Milk by Rennin

III. To Study the Effects of Heat and Acid on Milk Proteins

IV. To Observe How Milk Behaves During Preparation

V. To Differentiate Among the Many Available Varieties of Cheese

VI. To Compare How Various Processed Cheese Products Melt as Compared to a Natural Cheese Product

VII. To Understand How to Cook with Cheese

Laboratory 14: Meat and Poultry

I. To Show the Effects of the Degree of Doneness as Measured by the Internal Temperature and the Effects of Roasting Temperature on Roasting Time, Cooking Losses, and Color and Juiciness of Ground Meat Patties

II. To Show the Effect of Heat and Treatment on the Cooking of Less Tender Cuts of Beef

III. To Learn to Apply Different Cooking Techniques for Different Meat Cuts or Varieties

IV. To Observe and Learn How to Cut Up or Disjoint a Whole Chicken

V. To Learn Various Methods for Chicken Preparation

Laboratory 15: Fish and Seafood Cookery

I. How to Prepare Fish in a Variety of Ways

II. To Learn How to Prepare Shellfish

Laboratory 16: Legumes and Tofu

- I. To Learn How to Identify and Prepare Legumes
- II. To Learn About and Become Acquainted with Tofu in Food Preparation

Laboratory 17: Sugar Crystallization

- I. To Successfully Prepare Crystalline Candy by Learning the Principles of Proper Manipulation
- II. To Observe and Successfully Prepare Amorphous Candy
- III. Miscellaneous Candy

Laboratory 18: Ice Crystallization (Frozen Desserts)

- I. Preparation of Freezer and Freezer (Mixtures)
- II. To Use Still-Freezing in the Making of Frozen Desserts

Laboratory 19: Beverages: Coffee, Tea, and Cocoa

- I. To Show Some Factors Which Affect the Quality of Coffee Beverages
- II. To Show Some Factors Which Affect the Quality of Tea
- III. To Evaluate Cocoa and Chocolate

Laboratory 20: Sensory Evaluation of Food

I. To Study the Effect of Temperature on Flavor Intensity

II. To Learn How Color Affects Flavor

III. To Determine How Texture Affects Food Identification

Glossary of Common Terms Used in Food Preparation

Appendix A: Food Safety

Appendix B: Sanitation in the Kitchen

Appendix C: Care and Cleaning of Small Appliances

Appendix D: Measuring Equivalents

Appendix E: Emergency Substitutions

Appendix F: Safe Food Storage

Appendix G: Retail Meat Cuts and Recommended Cooking Methods

Appendix H: How to Identify Cuts of Meat by Bones

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Preface

My objective in writing this manual was to create a learning tool for the student in food service, hospitality management, dietetics, or family and consumer education. Ten years have elapsed since the first edition of this manual. During those 10 years many changes have taken place in food selection and preparation. In order to keep up with the changing tide in food, this manual has been updated to reflect these current trends. There are new recipes and reformulation of existing recipes with regard to ingredients or manipulation. There are also updates of technical information in each unit to be in touch with the current trends and discoveries in food.

The student should learn how to prepare nutritious food and how to make substitutions when necessary, yet still maintain the integrity and quality of food. Therefore, the student must understand the function of the ingredient(s) in a particular food system. The student must understand why the ingredient is being added and what effect the ingredient will have on the quality of the food product during preparation. This manual hopes to carry out this purpose not only with the recipes that are found in each particular unit, but also the questions, exercises, and vocabulary words that are part of each unit.

Each laboratory is an independent unit and can be assigned according to any sequence chosen by the instructor. There are a number of recipes in each unit, but they all do not have to be included in the lesson especially if some laboratory periods run for 2 hours instead of 3 hours. A careful selection of activities by the instructor should give the student a firm basis in foods and a clear understanding of the proper selection and manipulation of ingredients that will lead to a quality product.

I hope that you will enjoy this manual as much as I have over the years in the development of its content. I have to give credit to the students (and there have been over 2,000 since the first edition had come out!) who have contributed to its success. It is because of these students' incisive recommendations, constructive criticisms, and devotion to the subject of food that this manual has evolved into what it is today. It is hoped that many more students will become acquainted with its contents, and that they will come away with an interest and deep respect for food and the contribution that food makes in one's health and daily life. Finally, I hope that this manual will make a contribution by being a continuing source of information long after the course is completed.

Acknowledgments

A revision of a book takes time, patience, and the support of many people. I would like to express my appreciation to the following people who have contributed to the revision of this manual: Sherry Seville, Virginia Tech, whose expertise at the computer assisted in formatting the revised manuscript for publication; Sharon Kast, also of Virginia Tech, whose time and patience were responsible for the photographs that appear in some of the laboratory units; and especially to the students whose suggestions and participation over the years have made this manual an integral part of the Food course at the Department of Human Nutrition, Foods, and Exercise.

LABORATORY 1

Measuring Techniques



LABORATORY 1

Measuring Techniques

Proper measuring techniques must be emphasized to ensure success in food preparation. There are differences when measuring liquid and dry ingredients, and the student must learn these techniques as soon as possible in order to be successful in food preparation. The objective of this laboratory exercise is to introduce the student to proper measuring techniques.

VOCABULARY

boiling point
conduction heat
convection heat
meniscus
opaque
simmering
solvent
solute

MEASURING TECHNIQUES

The American Standards Association has defined the capacities of various measures, but not all measuring equipment has been standardized to meet these specifications. Variations of 5%, more or less than standard, are allowable.

I. NONMETRIC MEASURE OF VOLUME

A. DRY MEASURES

A set of dry measuring cups includes measures for 1/4 cup, 1/3 cup, 1/2 cup, and 1 cup (there are some manufacturers that make 2/3 cup and 3/4 cup measures). These measures are used for dry ingredients and solid fats. Ingredients vary in the way they pack down, lump, or cling to the measuring cup. Use the following guidelines when measuring:

1. All-purpose flour, cake flour, granulated sugar, and confectioner's sugar should be lightly spooned into the appropriate size dry measuring cup. **Do not shake or pat down.** Use a straight-edged spatula or knife to level off ingredients ([Fig. 1.1](#)).

[FIG. 1.1:](#) Spoon dry ingredients lightly into cup and level off with a straight-edged spatula.



2. Nuts, coconut, and bread crumbs should be spooned into the cup and packed down lightly.

3. Brown sugar should be spooned into the dry measure cup and packed down firmly with spatula and spoon.

4. Solid fats include hydrogenated shortening, lard, margarine, and butter. The solid fat should be packed into the dry measure with firm pressure. Butter and margarine should be at room temperature before being measured.

B. SMALL AMOUNTS OF INGREDIENTS

- 1.** Baking powder, baking soda, salt, and spices are used in such small amounts that they must be measured in small capacity measures of 1 tablespoon or less.
- 2.** Ingredients should be stirred and free of lumps.
- 3.** The desired measure is dipped into the ingredient and leveled off.
- 4.** Usually, the measuring spoons are found as 1/8 teaspoon, 1/4 teaspoon, 1/2 teaspoon, 1 teaspoon, 1/2 tablespoon, and 1 tablespoon.

C. LIQUIDS

- 1.** Oil, honey, milk, molasses, water, melted fat, and other liquid ingredients should be measured in a graduated, transparent liquid measure with a pour spout.
- 2.** Fill the measure to the desired graduation and check it by holding the measure at eye level so the bottom of the meniscus—the curved, upper surface of the liquid—matches the desired line on the side of the measure ([Fig. 1.2](#)).

[FIG. 1.2:](#) Read the measure by holding it at eye level so the bottom of the meniscus matches the desired line on the side of the measure.



- 3.** Opaque liquids (such as milk and honey) that do not show a meniscus are measured by aligning the top of the

liquid with the line on the measure.

4. Many liquids, especially oil and honey, tend to cling to the sides of the cup. To obtain an accurate transfer of the liquid, it is essential that the inside of the cup be scraped out with a rubber spatula. **Hint: spray measuring cup with cooking spray before measuring molasses or honey. This will make removal of the ingredient more efficient.**

D. OTHER MEASURING ADVICE

1. If the recipe specifies 3 teaspoons of baking powder, the tablespoon measure should be used to make the measurement. To measure 3 separate teaspoons introduces greater error in measurement.

2. When the recipe specifies less than 1 cup of liquid, and the measurement is made in a 2-cup graduated measure, there is also a greater chance of error.

3. It is important to use the measuring utensil that is closest in size to the amount of ingredient for greater accuracy.

EQUIVALENT MEASURES

1 tablespoon	= 3 teaspoons
1/8 cup	= 2 tablespoons
1/4 cup	= 4 tablespoons
1/3 cup	= 5 tablespoons + 1 teaspoon
1/2 cup	= 8 tablespoons
2/3 cup	= 10 tablespoons + 2 teaspoons
3/4 cup	= 12 tablespoons
1 cup	= 16 tablespoons or 1/2 pint
1 pint	= 2 cups
1 quart	= 4 cups or 2 pints
1 gallon	= 4 quarts

II. TO LEARN CORRECT TECHNIQUES FOR MEASURING INGREDIENTS

A. FLOUR (ALL-PURPOSE OR CAKE)

1. Method 1

- a. Fill 1/2 cup dry measure by dipping into canister of flour.
- b. Level with spatula.
- c. Weigh flour on gram scale and record weight in [Table 1.1](#).
- d. Repeat.

[Table 1.1](#) EVALUATION OF THE WEIGHT OF 1/2 CUP OF FLOUR

Method	Trial 1	Trial 2	Standard Weight*
1			
2			
3			

*All purpose: 1/2 cup, sifted: 58.0 g; 1/2 cup, spooned: 62.5 g; cake flour: 1/2 cup, sifted: 48.0 g; 1/2 cup, spooned: 55.5 g.

Source: *Handbook of Food Preparation: Food and Nutrition Section*, 9th edition, 1993, American Home Economics Association, p. 182.

2. Method 2

- a. Place 1/2 cup dry measure on a piece of waxed paper of 12 square inch.
- b. Sift flour directly into the cup until the cup overflows. Do not let the sifter touch the cup.
- c. Level flour with the edge of the spatula.
- d. Weigh flour and record weight in [Table 1.1](#).
- e. Repeat.

3. Method 3

- a. Stir flour in canister to lighten.

- b.** Carefully spoon flour 1 tablespoon at a time into 1/2 cup dry measure.
- c.** Level flour with the edge of the spatula.
- d.** Weigh flour and record weight in [Table 1.1](#).
- e.** Repeat.

QUESTIONS

- 1.** Which method of measuring flour yields the best check? Why?
- 2.** What would cause a difference in weight from the standard?
- 3.** How would you substitute all-purpose flour for cake flour in a recipe? Would this substitution work for all type of baked products?

B. SUGAR: GRANULATED AND BROWN

1. Method 1

- a.** Fill a 1/4 cup dry measure with granulated sugar by dipping it into the canister.
- b.** Level the sugar with the edge of the spatula.
- c.** Weigh sugar and record in [Table 1.2](#).
- d.** Repeat.

[Table 1.2](#) EVALUATION OF THE WEIGHT OF 1/4 CUP OF SUGAR

Method	Trial 1	Trial 2	Standard Weight*
1			
2			
3			

*Light brown sugar, packed: 1/4 cup = 50 g; dark brown sugar, packed: 1/4 cup = 50 g; granulated sugar: 1/4 cup = 50 g.

Source: *Handbook of Food Preparation: Food and Nutrition Section*, 9th edition, 1993, American Home Economics Association, p. 195.

2. Method 2

- a.** Fill a 1/4 cup dry measure with brown sugar by spooning sugar into cup.
- b.** Level the sugar with the edge of the spatula.
- c.** Weigh sugar and record in [Table 1.2](#).
- d.** Repeat.

3. Method 3

- a.** Fill a 1/4 cup dry measure with brown sugar by pressing the sugar into the measuring cup.
- b.** Level the sugar with the edge of the spatula.
- c.** Weigh sugar and record in [Table 1.2](#).
- d.** Repeat.

QUESTIONS

- 1.** How does the method for measuring brown sugar differ from that of measuring granulated sugar?

C. LIQUID

1. Method 1

- a.** Fill a liquid measuring cup with water to 1/4 cup mark.
- b.** Place a cup on a level surface and position yourself at eye level with the water before attempting to read the water level ([Fig. 1.2](#)).
- c.** Transfer all the water from the measuring cup to a 100-mL graduated cylinder and read the volume in milliliters.
- d.** Record the volume in [Table 1.3](#) and repeat.
- e.** Repeat Steps a through d, but use milk.

[Table 1.3](#) EVALUATION OF LIQUID MEASUREMENTS

Method of Measurement	Trial 1	Trial 2	Standard Volume*
1			
2			

*1 cup liquid measure = 236 mL; 1/4 cup liquid measure = 59 mL.

Source: *Handbook of Food Preparation: Food and Nutrition Section*, 9th edition, 1993, American Home Economics Association, p. 180.

2. Method 2

- a.** Fill a 1/4 cup dry measure with water.
- b.** Place measure on a level surface and position yourself at eye level with the water before reading the water level.
- c.** Transfer all the water from the cup to a 100-mL graduated cylinder and read the volume in milliliters.
- d.** Record the volume in [Table 1.3](#) and repeat.

QUESTIONS

- 1.** Was there a visual difference between the water and milk when they were measured, and why?
- 2.** What is the error that occurs when using a dry measure for measuring liquids?

D. FATS

1. Method 1

- a.** Fill a 1/4 cup dry measure with a solid fat.
- b.** Using a rubber spatula, press fat into the cup making sure there are no air pockets.
- c.** Level off with a straight-edged spatula.
- d.** Carefully, remove fat from cup with a rubber spatula and weigh.
- e.** Record weight in [Table 1.4](#) and repeat.

[Table 1.4](#) EVALUATION OF THE WEIGHT OF 1/4 CUP HYDROGENATED FAT

Method	Trial 1	Trial 2	Standard Measure*
1			
2			

*Hydrogenated shortening, solid: 1/4 cup = 46 g.

Source: *Handbook of Food Preparation: Food and Nutrition Section*, 9th edition, 1993, American Home Economics Association, p. 175.

2. Method 2

- a.** Melt solid fat in a saucepan over **low heat**.
- b.** Take a 1 cup liquid measuring cup and pour melted fat up to the 1/4 cup measure mark.
- c.** Weigh and record the weight in [Table 1.4](#) and repeat.

QUESTIONS

1. What precautions should you take for measuring fats?
2. Account for the differences in weight of the fats.
3. Why is it important to allow fats, such as butter and margarine, to come to room temperature before measuring and mixing?

III. WATER AND THERMOMETRY

1. Most of the changes brought about by foods by cooking take place in a watery medium (moist heat).
2. Water absorbs heat from the hot unit through the cooking utensil and transfers this heat to the food.
3. When water boils, convection heating currents surround the food; therefore, even and quick cooking of the food occurs.
4. Water sets its limit to how hot it gets (100°C or 212°F), while fat can go to higher extremities.
5. The intensity of the heat is measured by a thermometer (either in °F or °C).

A. FACTS ON USING A THERMOMETER

1. The bulb must be completely covered with hot liquid.
2. The bulb should not touch the sides or bottom of the utensil.
3. There are 100° between the boiling point and the freezing point of water on the centigrade scale.
4. There are 180° between the boiling point and the freezing point of water on the Fahrenheit scale.
5. Therefore,
 - a. $1^{\circ}\text{C} = 1.8^{\circ}\text{F}$
 - b. $^{\circ}\text{C} = (^{\circ}\text{F} - 32) \div 1.8$
 - c. $^{\circ}\text{F} = (^{\circ}\text{C} \times 1.8) + 32$

B. LEARN TO RECOGNIZE COMMONLY USED TEMPERATURES

Heat water to each temperature specified in [Table 1.5](#) and note its appearance.

[Table 1.5](#) EVALUATION OF COMMONLY USED TEMPERATURES

Term	Description	°F	°C
Room		77.0	25
Lukewarm		98.6	37
Scalding*		149.0	65
Simmering		185.0	85
Boil slowly		212.0	100
Boil rapidly		212.0	100

*The temperature varies with material being scalded.

QUESTIONS

1. Explain what happens when water boils.
2. Name some instances when scalding temperature is used in food preparation.
3. What happens when salt is added to boiling water? If sugar is added?

C. DETERMINING THE ACCURACY OF LABORATORY OVENS

1. Take an oven thermometer and calibrate your ovens. Place the rack in the middle of the oven. Use 350°F as a standard to go by.
2. Record oven temperature: _____

QUESTIONS

1. Why is it important that the temperature of the oven be exact?
2. In what position would you place the oven rack to cook food in a conventional oven for:
 - a. a two-layer cake?
 - b. a tube cake pan?
 - c. a cookie sheet pan?
 - d. a roasted whole turkey?
3. What is a convection oven? What temperature adjustment is made when using such an oven? Is the rack adjustment the same for the products mentioned in Question 2 for the convection oven?

IV. APPLICATION OF MEASURING TECHNIQUES: COOKIES

OBJECTIVES

1. To practice proper measuring techniques involving dry and liquid measuring.
2. To familiarize the student with reading a recipe and becoming acquainted with certain culinary terms.

A. CHOCOLATE CHIP COOKIES

1/3 cup shortening
1/4 cup granulated sugar
1/4 cup light brown sugar, packed
1 large egg
1/4 teaspoon vanilla extract
3/4 cup + 1 tablespoon all-purpose flour
1/4 teaspoon baking soda
1/4 teaspoon salt
3 oz. semisweet chocolate chips

- 1.** Preheat oven to 375°F. Make sure oven rack is in the middle position.
- 2. Sift** together flour, salt, and baking soda; set aside.
- 3.** In a medium-sized bowl, **cream** together shortening, granulated sugar, brown sugar, egg, and vanilla for 2 minutes.
- 4.** Add flour mixture to creamed mixture; **mix** only until flour is combined.
- 5. Stir** in chocolate chips. Chill dough in freezer for 5-10 minutes. (This helps the dough from not overspreading during baking.)
- 6.** Drop dough by rounded teaspoonfuls about 2 inches apart onto ungreased baking sheet.
- 7.** Bake for 8-10 minutes, or until edges start to brown slightly. Remove pan from oven, and allow cookies to cool for 2 minutes on the pan.
- 8.** With a spatula remove cookies from pan and place on a wire rack to cool.

B. CHOCOLATE CHIP COOKIES (LOWER-FAT VERSION)

1/2 cup granulated sugar minus 1 tablespoon
1/4 cup light brown sugar, packed
1/4 cup butter or margarine at room temperature
1 teaspoon vanilla
1 egg white
1 cup + 2 tablespoons all-purpose flour
1/2 teaspoon baking soda
1/4 teaspoon salt
1/4 cup miniature semisweet chocolate chips

- 1.** Preheat oven to 375°F. Make sure that the rack is on the middle position in the oven.
- 2.** Sift together, flour, salt, and baking soda; set aside.
- 3.** In a medium-sized bowl, **cream** together butter, granulated and brown sugar, egg white, and vanilla for 2 minutes.
- 4.** Stir in flour mixture until just combined. Stir in chocolate chips. Chill dough for 5–10 minutes in the freezer.
- 5.** Drop dough by rounded teaspoonfuls about 2 inches apart onto an ungreased baking sheet.
- 6.** Bake for 8–10 minutes, or until edges are lightly brown.
- 7.** Remove pan from oven and allow cookies to cool for 2–3 minutes before removing with a spatula to a cooling rack.

C. OATMEAL COOKIES (BASIC RECIPE)

1/2 cup all-purpose flour
1/2 teaspoon baking powder
1/4 teaspoon salt
3/4 teaspoon cinnamon
1/4 cup + 3 tablespoons milk
1/4 cup + 2 tablespoons shortening

1/2 cup light brown sugar, packed
1 large egg
1½ cups quick cooking oatmeal
1/4 cup chopped walnuts or pecans
1/4 cup sweetened coconut
1/4 cup chopped raisins or dates

- 1.** Adjust the rack to the middle of the oven. Preheat oven to 375°F.
- 2.** Sift together flour, baking powder, salt, and cinnamon into a medium-sized bowl.
- 3.** Add shortening, brown sugar, milk, and egg to flour mixture and beat until smooth.
- 4.** Add oatmeal and mix thoroughly.
- 5.** Add walnuts, coconut, and raisins and mix until combined.
- 6.** Drop dough by teaspoonfuls onto a greased cookie sheet.
- 7.** Bake for 12-15 minutes. When cookies appear dry and the edges are light brown, remove them from oven. Cool slightly and then remove cookies from the sheet onto a cooling rack.

D. OATMEAL SPICE COOKIES (LOW-FAT VERSION)

2¼ cups quick cooking oatmeal
2 tablespoons orange juice
1 cup all-purpose flour
1/2 teaspoon baking soda
1/2 teaspoon baking powder
1/4 teaspoon salt
1/4 teaspoon cinnamon