

Recipe Basics

Measure accurately, substitute wisely, adjust carefully

Commonly used abbreviations

t. or tsp.		=	teaspoon
T. or Tbsp.		=	tablespoon
c. =		cup	
pt.	=	pin	t
qt.	=	qua	art
gal.	=	gallon	
fl. oz.	=	flui	d ounce
0Z.	=	our	ice
lb.	=	рοι	und
pkg.	=	pad	ckage
doz.	=	doz	en
min.	=	mir	nute
hr.	=	hou	ır
mod.	=	mo	derate
°C.	=	Cel	sius
°F.	=	Fah	renheit

Equivalent amounts

½ Tbsp.	1 ½ tsp.	¼ fl. oz.			
1 Tbsp.	3 tsp.	½ fl. oz.			
¼ c.	4 Tbsp.	2 fl. oz.			
⅓ c .	5 Tbsp. + 1 tsp.				
½ c.	8 Tbsp.	4 fl. oz.			
1 c.	16 Tbsp.	8 fl. oz.			
1 pt.	2 c.	16 fl. oz.			
1 qt.	2 pt. or 4 c.	32 fl. oz.			
1 gal.	4 qt.	128 fl. oz.			
For margarine/butter:					

FUI maryarm	e/buller.
1 lb.	4 sticks

1 10.	1 Ottoko
1 stick	½ c. or 8 Tbsp.

Additional resources from lowa **State University Extension and** Outreach

AnswerLine

(www.extension.iastate.edu/ answerline) Call 1-800-262-3804 or (515) 296-5883

Spend Smart. Eat Smart.®

(spendsmart.extension.iastate.edu)

IOWA STATE UNIVERSITY Extension and Outreach

Practice makes any cook better, but even a first-time cook can achieve success by following a few basic guidelines. Before starting to work, read the recipe carefully, plan each step, and gather all needed ingredients and utensils.

Measure accurately

Fannie Farmer, "the mother of level measurements" had it right when she published her 1896 collection of recipes and insisted on the use of standard measuring cups and spoons. Every recipe requires measuring something; neither fancy tools nor gourmet recipes can make up for careless measuring.

Liquid measuring cup

- · Used to measure liquid ingredients (milk, water, corn syrup, vegetable oil, etc.)
- · Has a rim with a pouring lip above the one cup line
- Marked on one side to read portions of a cup and on the other side to read in milliliters
- Commonly available in glass or plastic 1-, 2-, and 4-cup sizes
- To use: set cup on a flat surface and read measurement at eye level OR use an angled measuring cup (shown at left) that can be read when looking down

Read at the bottom of the meniscus

Dry measuring cup

- · Used to measure dry ingredients (flour, sugar, brown sugar, oatmeal, etc.)
- Has no rim
- Standard set is metal or plastic and includes 1 cup, ½ cup, ⅓ cup, and ¼ cup
- To use: spoon, scoop or dip out the ingredient into the cup; level with the straight edge of a knife or a metal spatula

Measuring spoons

- Used to measure amounts smaller than ¼ cup
- Standard set includes 1 tablespoon, 1 teaspoon, ½ teaspoon, and ¼ teaspoon
- To use: level dry ingredients with the straight edge of a knife or metal spatula

Ingredient hints

Flour is presifted before packaging but settles during transportation and storage; stir before scooping.

Brown sugar should be packed down so that it holds the shape of the cup when removed.

Granulated (white) sugar may have clumps; break apart before measuring.

Vegetable shortening is stored at room temperature; spoon into cup and pack down to remove air pockets; use a rubber scraper to remove measured amount (rinsing cup in water first can make it easier).







Substitute wisely

Using the ingredient specified in the recipe will produce results closest to those intended by the recipe creator. However, it is good to know what substitutions are possible if you are missing an ingredient. In most recipes, making the following substitutions should produce results similar to the original recipe.

If recipe calls for	Try this substitution	
Baking powder (1 tsp.)	¼ tsp. baking soda plus ¾ tsp. cream of tartar	
Butter, margarine or vegetable shortening in baking (1 c.)	1 c. oil OR ¾ c. applesauce, apple butter, or avocado plus ¼ c. solid fat OR 1 c. ripened/mashed bananas	
Chocolate (unsweetened, 1 oz.)	3 Tbsp. cocoa powder plus 1 Tbsp. butter, margarine, or vegetable shortening OR 1 ounce semi-sweet chocolate minus 1 Tbsp. sugar	
Cornstarch (1 Tbsp.)	2 Tbsp. flour OR 2 Tbsp. tapioca pearls	
Corn syrup (1 c.)	1 c. golden syrup or honey OR 1 c. sugar plus ¼ c. liquid	
Cream of tartar (1 tsp.)	1 tsp. white vinegar OR lemon juice	
Egg (1)	2 egg whites OR ¼ c. egg substitute	
Flour, all-purpose (1 c.)	$rac{1}{2}$ c. whole wheat plus $rac{1}{2}$ c. all-purpose flour	
Flour, cake (1 c.)	¾ c. plus 2 Tbsp. all-purpose flour	
Flour, self-rising (1 c.)	1 c. all-purpose flour plus 1 ½ tsp. baking powder plus ½ tsp. salt	
Garlic	1/8 tsp. garlic powder	
Honey (1 c.)	1 c. corn syrup OR 1½ c. brown or granulated sugar plus ¼ c. additional liquid minus ½ tsp. baking soda	
Lemon juice (1 tsp.)	¾ tsp. lime juice plus ½ tsp. vinegar	
Miniature marshmallows (1 c.)	10 large marshmallows	
Milk, buttermilk or sour (1 c.)	1 Tbsp. lemon juice or vinegar plus 1 c. regular, soy, or nut milk (let sit at least 10 minutes) OR ¾ c. plain yogurt plus ⅓ c. milk	
Milk, whole (1 c.)	1 c. reduced fat or fat free milk OR 1 c. soy milk OR $\%$ c. evaporated milk plus ½ c. water	
Molasses (1 c.)	1 c. corn syrup, honey, or maple syrup OR 1½ c. brown sugar	
Non-dairy coffee creamer (1 Tbsp.)	1 Tbsp. instant dry milk plus 1 Tbsp. water	
Sour cream (1 c.)	1 Tbsp. lemon juice plus evaporated milk to make 1 c. (let stand to thicken) OR 1 c. cottage cheese plus 2 Tbsp. milk plus 2 Tbsp. lemon juice (blended) OR ½ c. cottage cheese plus ½ c. yogurt (blended)	
Sugar, brown (1 c.)	1 c. granulated sugar plus 2 Tbsp. molasses	
Sugar, confectioners or powdered (1 c.)	1 c. granulated sugar plus 1 Tbsp. cornstarch (blended in a food processer using the metal blade attachment until well combined and powdery)	
Sugar, granulated (1 c.)	1 c. light brown sugar OR 1 ¾ c. powdered sugar	
Tomato juice (1 c.)	½ c. tomato sauce or tomato puree plus ½ c. water	
Tomato sauce (1 c.)	1 c. tomato puree OR $\frac{1}{2}$ c. tomato paste plus $\frac{1}{2}$ c. water	
Yogurt, plain (1 c.)	1 c. buttermilk, sour cream, or cottage cheese (blended)	

Adjust carefully

Often it's easier to make the whole recipe and freeze half or third. If not, use these guidelines.

If recipe calls for	Use this amount to make $\frac{1}{2}$ of total	Use this amount to make 1/3 of total	
1⁄4 cup	2 tablespoons	1 tablespoon + 1 teaspoon	
⅓ cup	2 tablespoons + 2 teaspoons	1 tablespoon + 2 ¼ teaspoons	
½ cup	¼ cup	2 tablespoons + 2 teaspoons	
⅔ cup	⅓ cup	3 tablespoons + 1 ½ teaspoons	
¾ cup	6 tablespoons	¼ cup	
1 cup	½ cup	⅓ cup	
1 tablespoon	1 ½ teaspoons	1 teaspoon	
1 teaspoon	½ teaspoon	Generous ¼ teaspoon	
½ teaspoon	¼ teaspoon	Scant ¼ teaspoon	
¼ teaspoon	½ teaspoon	Scant ¼ teaspoon	

Reviewed by Ruth Litchfield, PhD, RD, LD, state nutrition and wellness specialist, Iowa State University Extension and Outreach.

lowa State University Extension and Outreach does not discriminate on the basis of age, disability, ethnicity, gender identity, genetic information, marital status, national origin, pregnancy, race, color, religion, sex, sexual orientation, socioeconomic status, or status as a U.S. veteran, or other protected classes. (Not all prohibited bases apply to all programs.) Inquiries regarding nondiscrimination policies may be directed to the Diversity Advisor, 2150 Beardshear Hall, 515 Morrill Road, Ames, Iowa 50011, 515-294-1482, extdiversity@iastate.edu. All other inquiries may be directed to 800-262-3804. PM 2078 September 2019

Adapted with permission from University of Nebraska Extension (food.unl.edu/reducing-size-recipes-0).