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Making Picture Recipes

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INTRODUCTION

Making Picture Recipes was created to provide cooking instruction for low vision nonreaders and beginning readers. The curriculum developed from needs within Perkins School for the Blind, where the authors discovered that students reaching adolescence needed some degree of cooking independence in preparation for community living. No formal curriculum existed to address this need with low vision non-readers and beginning readers. Although some commercial picture recipe programs were available, pictures were too small for students with a visual impairment, and, in many cases, too complex for students with perceptual and learning difficulties. In addition, the quantities of ingredients given in the recipes were fixed and could not be adapted for larger or smaller numbers of servings. It was this situation which prompted the authors to devise their own picture recipe program.

Making Picture Recipes includes 257 bold-line, simplified illustrations of common foods and ingredients, cooking equipment, and cooking processes on 3.5 inch x 4 inch cards. The reproducible cards can be combined and photocopied to depict multi-step recipes; the resulting photocopies can be colored and customized to correspond to actual products students will be using during food preparation. An instruction manual with easy, how-to directions, sample recipes formatted in two ways, corresponding checklists for assessment, and helpful hints for adaptation will guide you in designing a program of cooking instruction and in creating a variety of picture recipes.

CREATING A PICTURE RECIPE

The file of master picture cards included with *Making Picture Recipes* contains bold line illustrations of ingredients, cooking equipment, and processes for preparing a variety of foods. The master cards are designed to be photocopied, then ordered and combined to show the steps of a given recipe. The resulting picture recipe guides the student in identifying and gathering the necessary ingredients and equipment and in following the recipe's steps in the proper order. (Sample recipes are shown on pages 5-7 and on 19-48.)

To create a picture recipe using the master cards:

- select a recipe from a favorite cookbook or other source;
- gather the master cards which show the necessary ingredients, equipment, and processes which will be involved;
- photocopy the master cards;
- cut-out and tape photocopied pictures on a separate "organization page" showing the child all ingredients and equipment which must be gathered to prepare the recipe;
- cut-out and tape together photocopied pictures or trace over pictures to illustrate each step of the recipe (In some cases a single master card may adequately illustrate a recipe step and it will not be necessary to "cut and paste.");
- reduce or enlarge the photocopies, if necessary, so that items shown in the same step are proportionate to one another, keeping in mind the student's visual impairment;
- arrange each illustrated step of the recipe in the proper sequence, using the full page format or the flip-card format described later in this section;
- photocopy your "cut and paste" version and preserve the "cut and paste" version as a master picture recipe;
- using the new photocopy of your picture recipe, you may color the pictures or add detail to make the pictured items more closely resemble actual materials which will be on hand for the student's use.

Although the picture of a particular item provided in the master set of cards may differ from the actual utensil or product being used (e.g., differences in label or package design), the picture recipe may be colored to match the materials which are available. If color as an additional cue is not sufficient for a student to be able to identify a product or process, the master set of picture cards includes blank boxes, cans, and containers which may be specifically labeled and colored to match available items. See the section entitled "Helpful Hints" for additional ways to customize picture recipes for easy identification. As an alternative to photocopying the master cards, you may experiment with using an acetate pocket page, slipping the appropriate master cards into each pocket to quickly create an "organization page" or assemble very simple picture recipes. This method, however, does not allow you to combine elements from two or more cards to more clearly depict a recipe step. However, for students able to make extensive inferences from the pictures provided, it is a very easy way to assemble a picture recipe. You may still color the pictures using visual aid pens designed for use with transparencies, coloring on the surface of the pocket page. (Acetate pocket pages may be purchased from photographic supply stores and are frequently found with the camera equipment in many discount stores.)

Full-Page Format

The full-page format for picture recipes is suitable for students who are able to follow a left to right, top to bottom sequence. Before depicting the steps of the recipe, provide an "organization page" showing the student the ingredients and equipment needed to complete the recipe. The student may then identify and gather these before proceeding with the actual steps of the recipe. Pictures of items should be arranged vertically. For students who have demonstrated reading readiness skills, the written word for the item may be placed next to the picture. Items should be lableled with a single key word (e.g., "bowl," "milk,"). Page 5 shows an "organization page" for making hot chocolate using the full-page format.

Following the "organization page(s)" are "picture recipe page(s)" depicting each step of the recipe. These pages are divided into frames with one step pictured in each frame. Steps are sequenced in left to right and top to bottom order. Written words identifying the process shown in each step ("stir," "cut") may or may not be included depending on the student's needs. Pages 6-7 show an example of a picture recipe page for making hot chocolate using the full-page format. Hot Chocolate/Organization Page

Gather:



Hot Chocolate/Picture Recipe



Hot Chocolate/Picture Recipe (continued, page 2)



Flip-Card Format

For students who have difficulty with left to right/top to bottom progression, difficulties with scanning and visual tracking, or other perceptual problems, the full-page format for picture recipes may contain too much visual information. The flip-card format may suit the needs of these students. Flip cards can be made from index cards bound with a loose-leaf ring. Each card should depict only one or two steps of the recipe. A picture recipe with a flip card format also can be quickly made using a 4"x 6" acetate photograph booklet; slip the appropriate photocopies or master cards into the pockets of the booklet.



HELPFUL HINTS

Here are some time-saving ideas and hints for making picture recipes which communicate tasks more clearly.

- 1. Gather scissors, tape, correction fluid (for photocopies), and a black felt-tip pen for creating your master picture recipes.
- 2. Keep a file of master picture recipes for future use.
- 3. Always make a photocopy of your recipes **before** coloring them. By doing so, you can easily make revisions without having to start over.
- 4. Use heavy paper if possible. This prolongs the life of the completed recipe.
- 5. Preserve recipes with acetate sheet holders, in acetate photograph booklets, with clear contact paper, or use a laminating machine.
- 6. Color is a very important cue for students when using picture recipes. Color the recipes in accordance with the equipment, foods, and ingredients which the student will actually be using.
 - a. In the case of measuring cups and spoons--or bowls of a specific size, it is helpful to use color as means of distinguishing these. For example, if the student has a **blue** half-cup measure and a **red** full-cup measure, picture recipes should be colored accordingly so the student can easily identify the measuring cup needed. Or you may "color-code" the utensils using a colored sticker or tape. In the picture recipes you create, be sure to draw the sticker on the utensil and color it to match.
 - b. To assist students in matching the knob on the stovetop to the individual burner it controls, color-code the stovetop knobs, then place a matching colored sticker by the burner each knob controls.
 - c. Colored tape or stickers may be used on other appliances, such as the electric mixer or microwave oven, to code or mark settings required by a particular recipe. Color the picture recipe correspondingly.
- 7. To show settings such as cooktimes, temperatures, or speeds for the blender or mixer, you may also enlarge the portion of the master picture card which shows the control panel, or draw a control panel which matches the appliances the student will be using. For example, for the microwave, enlarge the portion showing the control panel; in one picture or a series of pictures, highlight the buttons to be

pressed in the proper order. You may also write in the numbers indicating cooktime on the part of the control panel which displays cooktime.

8. As another way to make activities depicted in picture recipes easier to understand, sketch in the food ingredient being measured, poured, spread, or stirred, then color it appropriately on the picture recipe. For example, if brown sugar is being spooned into a measuring cup--draw a spoonful of brown sugar on the spoon, show some already in the measuring cup, and color these light brown. Show liquid being poured from one container to another by drawing lines showing its flow.

As you create picture recipes, you will discover other ways to save time and communicate tasks more clearly through illustration, color-coding, and other means. Make a note of these methods and be consistent in applying them as you create new picture recipes. As students become accustomed to these methods, interpreting the picture recipes will become easier and they will function more independently.

CHECKLISTS

The authors recommend checklists be developed for and used with each picture recipe to ensure consistent process and to provide a means of evaluating a student's progress. They have devised a general checklist/assessment which can be modified to reflect the steps of specific recipes. Their general format includes these areas of performance:

Readiness:

go to cooking area put on apron wash hands begin work

Organization:

gather equipment and food items (specific to recipe being used)

Process:

perform each step and substep of the recipe (specific to recipe being used)

Clean-up:

put away leftover food put dirty utensils in designated area wash work area

Each student is evaluated as follows:

- I= Independent (Student performs a task, a step or substep in the picture recipe without staff assistance.)
- **P**= *With prompt* (Student performs a task, a step or substep in the picture recipe with direction from the staff.)
- **H**= *Hand over hand* (Student performs a task, a step or substep in the picture recipe with physical assistance from the staff.)

The checklist can serve as a useful reference showing the student's previous performance with a given recipe. For this reason, the format devised by the authors features two columns for recording student performance on more than one occasion.

How to Make Your Own Checklist

A blank checklist is included on page 15 so that you may photocopy and modify it for the recipes you are using. When making a checklist the following guidelines should be kept in mind:

- 1. The equipment and food items which the student must gather for the recipe should be listed separately.
- 2. Each step of the picture recipe (and substeps) should be described under the Process section.
- 3. Tasks listed under readiness and clean-up should follow a consistent, predictable routine.

Sample Checklist

The following is a sample checklist already modified for use with a picture recipe for preparing peanut butter and jelly sandwiches.

	CHECKLIST	
√EREMY AMES Student name	Peanut Butter g Jelly Sandwiches Picture recipe	l=independently P=with prompt H=hand-over-hand
JOB DESCRIPTION	Date 3/2/96	Date 3/15/96
READINESS		
1. goes to kitchen	I	I
2. gets apron	P	I
3. washes hands	P	P
4. begins work	P	P
EQUIPMENT		
SPREADER	I	I

INGREDIENTS		
BREAD	P (GOT WRONG TYPE)	I
PEANUT BUTTER	I	I
JELLY	エ	Z

CHECKLIST

PROCESSES	Date <u>3/2/96</u>	Date <u>3/15/9</u> 6
OPEN BREAD	I	I
TAKE OUT 2 SLICES	P (60T 1)	I (6072)
SPREAD PEANUT BUTTER	H (HAS DIFFICULTY)	4
SPREAD JELLY	H	H
PUT SLICES TOGETHER	I	I

CLEAN UP

1. put away leftovers	P (FORGOT JELLY)	1
2. throw away garbage	I	I
3. put utensils in sink	I	I
4. wash counters/etc.	H (NEEDS TO CLEAN) MORE THOROUGHLY)	

CHECKLIST

Student name	Picture recipe	l=independently _ P=with prompt H=hand-over-hand
JOB DESCRIPTION	Date	Date
READINESS		
1. goes to kitchen		
2. gets apron		
3. washes hands		
4. begins work		

EQUIPMENT

INGREDIENTS

PROCESSES

CLEAN UP

- 1. put away leftovers
- 2. throw away garbage
- 3. put utensils in sink
- 4. wash counters/etc.

LEVELS OF DIFFICULTY

After several years of creating and using picture recipes with their students, the authors' cooking program grew to include recipes which ranged in difficulty in terms of the number of steps and types of processes involved (e.g., using a stovetop, oven, etc.). As new students began cooking instruction, it became necessary to classify recipes according to the level of ability required. In this way, students would not be exposed to potentially dangerous and unfamiliar techniques. Listed below are four levels of difficulty and the skills and techniques which define each level. You may wish to set other criteria for levels of difficulty which are based on the students with whom you are working.

	LEVEL II	LEVEL III	LEVEL IV
stirring opening cans spreading cutting with blunt edge opening jars/ boxes washing vege- tables pouring sandwich assembly microwave	cutting with knives electric skillet electric mixer blender simple measuring	oven stove top complex measuring	use of recipes requiring many steps and processes
DOES NOT REQUIRE:			
LEVEL I	LEVEL II		
oven stove complex measuring simple measuring electric skillet sharp knives	oven stove complex measuring		

LEVEL I SAMPLE RECIPE

Peanut Butter and Jelly Sandwiches/Organization Page





. .

. .

22



LEVEL II SAMPLE RECIPE

Instant Pudding/Organization Page





30

.
LEVEL III SAMPLE RECIPE

.



Pizza Muffins/Organization Page (continued, page 2) Gather:



ENGLISH MUFFINS





Pizza Muffins/Picture Recipe (continued, page 2)



Pizza Muffins/Picture Recipe (continued, page 3)



LEVEL IV SAMPLE RECIPE

Peanut Butter Cookies/Organization Page

Gather:



Peanut Butter Cookies/Organization Page (continued, page 2)

Gather:



Peanut Butter Cookies/Organization Page (continued, page 3)

Gather:





Peanut Butter Cookies/Picture Recipe (continued, page 2)



Peanut Butter Cookies/Picture Recipe (continued, page 3)



Peanut Butter Cookies/Picture Recipe (continued, page 4)



LIST OF MASTER PICTURE CARDS

LIST OF MASTER PICTURE CARDS

The 257 master picture cards in the program's file box are organized into three groups: **equipment**, **ingredients**, and **cooking processes**. Within each of these groups, they are divided further into subgroups. This list shows their organization. To locate a particular card, find it on the list, note its subgroup heading (e.g., Appliances), and find the divider card printed with that heading in the file. Each card is also numbered on the reverse side to allow you to locate (and later refile) it more easily. Numbers are shown in parentheses on this list. The cards may be reorganized to suit your own needs, in which case you may wish to create a new list and renumber the master cards.

EQUIPMENT

Appliances (major)

Conventional oven (1) Microwave oven (2) Refrigerator (3) Stove (4)

Appliances (small)

Blender (5) Electric mixer (handheld) (6) Electric skillet (7) Toaster (8) Toaster oven (9)

Baking dishes and baking pans

Cake pan (round) (10) Casserole baking dish (glass) (11) Casserole dish (Corningware) (12) Cookie sheet (13) Loaf pan (14) Muffin pan (15) Rectangular baking pan (16) Square baking pan (17)

Dishware

Bowls bowl with pour spout and handle (18) large mixing bowl (19) medium mixing bowl (20) small mixing bowl (21) serving bowl (22) Glass (23) Mug (24) Pitcher (25) Platter (26)

Measuring equipment

Measuring cups liquid measure (glass) (27) 1 cup (pictures in two sizes) (28, 29) 1/2 cup (pictures in two sizes) (30, 31) 1/3 cup (pictures in two sizes) (32, 33) 1/4 cup (pictures in two sizes) (34, 35) Measuring spoons 1 tablespoon (two sizes) (36, 37) 1 teaspoon (two sizes) (38, 39) 1/2 teaspoon (two sizes) (40, 41) 1/4 teaspoon (two sizes) (42, 43)

Pots and Pans

frying pan (44) large saucepan (45) pot lid (46) small saucepan (47) stock pot (48)

Utensils

Can opener electric (49) manual (50) Fork (tableware) (51) Grater (52) Ice cream scoop (53) Knives large serrated knife (54) paring knife (55) small serrated knife (56) spreading knife (57) tableware knife (58) Ladle (59) Pastry brush (60) Scissors (61) Spaghetti "fork" (62) Spatula (63) Spoons mixing spoon (64) slotted spoon (65) tableware spoon (66) wooden spoon (67) Tongs (68) Turner (69) Whisk (70)

EQUIPMENT (continued)

Miscellaneous

Colander (71) Cutting board (72) Kitchen products aluminum foil (73) paper muffin cups (74) plastic wrap (75) wax paper (76) Oven mitts (77) Timer (78) Trash can (79)

Bread/Grains

Breads and rolls Crescent rolls (refrigerator "tube") (80) English muffins (81) French bread (82) Hamburger buns (83) Hot dogs buns (84) Rolls (boxed in wrapper) (85) Sliced bread (86) Bread crumbs (boxed) (87) Chips ("nacho") (88) Crackers (89) Egg noodles (90) Macaroni (91) Oats (boxed) (92) Rice (bagged) (93) Spaghetti (94)

Canned goods

Beans green beans (95) kidney beans (96) pinto beans (97) yellow beans (98) Pears (99) Soup (100) Spaghetti sauce (101) Tomatoes (102)

Dairy

```
Butter
      carton (103)
      stick (104)
Cheese
      American (105)
      Cheddar (106)
      Cream cheese (107)
      Mozzarella
            bag (shredded) (108)
            block (109)
      Parmesan (110)
Cottage cheese (111)
Eggs (112)
Milk
      condensed (113)
      gallon (114)
      half-gallon (115)
Non-dairy dessert topping (116)
```

Dairy(continued)

Sour cream (117) Yogurt (118)

Fresh fruits

Apple (119) Banana (120) Grape (121) Orange (122) Pear (123) Watermelon (124)

Fresh vegetables

Broccoli (125) Carrots (126) Celery (127) Cucumber (128) Green onion (129) Green pepper (130) Lettuce (131) Mushroom (132) Onion (133) Stir-fry vegetables (chopped) (134) Tomato (135)

Frozen foods

Fish sticks (136) French fries (137) Juice (concentrate) (138) Pie shells (139) Pizza (140) Vegetables bag (141) boxed (142)

Meat

Chicken (whole) (143) Ham (canned) (144) Hamburger (145) Hot dogs (146) Luncheon meat (147) Tuna (canned) (148)

INGREDIENTS (continued)

Prepared mixes

Biscuit mix (149) Brownie mix (150) Cake mix (151) Cookies Dry mix (152) Refrigerated dough (153) Hot chocolate (154) Instant pudding (155) Jello (156) Macaroni and cheese (157) Muffin mix (158) Onion soup (dry) (159)

Miscellaneous ingredients

Flour (160) Honey (161) Jelly (162) Mayonnaise (163) Oil (164) Peanut butter (165) Raisins (166) Salad dressing (167) Seasonings Pepper (168) Salt (169) Spray (nonstick) (170) Sugar brown sugar (171) white sugar (172) Vanilla extract (173)

Unlabeled ingredient containers

Bag (plastic) (174) Box large (175) tall (176) small (177) Carton quart (178) pint (179) Can large (180) regular (181) small (182)

INGREDIENTS (continued)

Unlabeled ingredient containers (continued)

Ice cream type containers box (183) round carton (184) Jar glass (185) plastic (186) small (seasoning) (187) Jug milk (188) other plastic jug (189) Packet (hot chocolate, dry mixes) (190) Tub containers large (191) small (192) tall (193)

COOKING PROCESSES

Baking

Placing in conventional oven (194) Placing in microwave oven (195) Pre-heating (196) Removing from conventional oven (197) Removing from microwave oven (198) Removing items from cookie sheet with turner (199) Setting oven timer (200)

Stovetop cooking

Boiling (201) Frying (202) Turning (hamburgers in a skillet) (203)

Food preparation

Brushing (with pastry brush) (204) Chopping onion (205) tomato (206) Coring lettuce (207) tomato (208) Cutting knife (209) scissors (210) Draining cans (211) colander (212) Egg cracking (213) Grating cheese (214) lettuce (215) Ladling (216) Peeling banana (217) hardboiled egg (218) onion (219) orange (220) Sandwich assembly (221) Scooping (222) Scraping bowl using a spoon (223) measuring cup into bowl/spatula (224) plate using a spatula (225)

Food preparation (continued)

Slicing (226) Spooning (227) Spraying (228) Spreading (229) Sprinkling (230) Washing (231)

Measuring

Liquid measure (wet material) (232) Measuring cup (dry material) (233) Measuring with a spoon (234)

Mixing

Blender (235) Handmixing (236) Electric mixer (handheld) (237) Spoon (238) Whisk (239)

Opening

Bag (240) Box (large) (241) Box (small) (242) Can--with electric can opener (243) Can--with manual can opener (244) Juice concentrate (245) Packet (246) Refrigerator rolls (247)

Pouring

Dry material (248) Wet material (249) Blender to glass (250) Box into bowl (251) Can into bowl (252) Liquid measure into bowl (253) Measuring cup into bowl (254) Measuring spoon into bowl (255) Milk carton into bowl (256) Milk jug into measuring cup (257)