

Building Mealtime Environments and Relationships

An Inventory for Feeding Young Children in Group Settings

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Janice Fletcher, EdD Principal Investigator University of Idaho Child, Family, and Consumer Studies College of Agricultural and Life Sciences

Elizabeth Price, MS

Research Associate University of Idaho Family and Consumer Sciences College of Agricultural and Life Sciences Laurel Branen, PhD, RD, LD Principal Investigator University of Idaho Food and Nutrition College of Agricultural and Life Sciences

Sara Collyer Matthews, MS Research Assistant North Idaho College Children's Center

Collaborators

Susan L. Johnson, PhD University of Colorado Health Sciences Center Madeleine Sigman-Grant, PhD, RD University of Nevada, Reno Cooperative Extension

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Deborah Carr, PhD, RD Ruby Collins Doris Fredericks, RD Carolyn Garland, MS Jean Heinz, RD, LD Sarah Mulligan, MEd Paula Peirce, PhD, RD Dana Pridham Lynne Torpy, RD, LT Valerie Valdivia

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Table of Contents

Directions for Using the Building Mealtime Environments and Relationships Inventory (BMER)2
Cluster One: Mealtime Setting
Topic Area: Equipment4
Topic Area: Mealtime Environment5
Topic Area: Sanitation at the Table6
Topic Area: The Food7
USDA Child Care Meal Plan Guidelines8
Topic Area: Preventing Choking9
Cluster Two: Children's Development
Topic Area: Food Intake11
Topic Area: Social and Emotional Development (Self-regulation)12
Topic Area: Mealtime Motor Skills13
Topic Area: Conversations (Listening and Speaking Skills)14
Cluster Three: Guiding Individuals and Groups at Mealtimes15
Topic Area: Routines and Schedules16
Topic Area: Adult Practices at Mealtime17
Topic Area: Community Building18
Building Mealtime Environments and Relationships (BMER) Summary Recording Graph
Building Mealtime Environments and Relationships (BMER) Resources

Using the Building Mealtime Environments and Relationships Inventory (BMER)

Introduction

Building Mealtime Environments and Relationships: An Inventory for Feeding Young Children in Group Settings is designed to examine group care and education settings including child care centers, preschools, and Head Start centers. The BMER is not designed for use in family child care mealtimes, or for family meals. The BMER is an inventory of strategies for evaluating feeding children ages 24 months through five years. It is designed for evaluation of full meals, but may be used to inventory strategies at snacktimes. The BMER is most appropriate for settings where food is prepared and served, though programs that use lunchbox meals may adapt the tool to fit their needs.

Who should use the Building Mealtime Environments and Relationships Inventory?

Managers and supervisors, lead teachers, nutrition consultants, and health consultants are appropriate users of the BMER. Researchers may use the BMER to inventory mealtime strategies across group settings, though the BMER is still under study for statistical reliability and validity.

Why should I use the BMER Inventory?

The BMER Inventory is designed to help staff examine mealtime practices and mealtime environments. Lead teachers or supervisors make observations to develop a profile of the meal setting. Staff can use the criteria from the BMER to confirm current practices, and to discuss changes or improvements in their meal practices. Ratings may be used to plan staff in-service programs to focus on specific mealtime practices.

Directions for Use

How do I use the BMER Inventory?

The rater selects one room and observes all the staff and the children at the mealtime in that room. If the children eat in a cafeteria setting, the rater evaluates only those staff and children who are in the selected group. The BMER Inventory is a direct observation tool. Make a copy of each Topic Area page from the inventory and a Summary Recording Graph for each classroom to be observed. The rater starts the observation when the transition to a meal begins. This is usually signaled by tables being cleaned for the meal, and when children and staff begin to wash their hands in preparation for the meal. The observation ends when the last table is cleared and all the children complete mealtime routines, such as handwashing, clearing their places, or pushing in chairs.

What if I want to use part of the BMER Inventory?

The BMER includes 12 Topic Areas arranged in three Clusters. Users may rate all 12 Topic Areas for a comprehensive review of mealtime practices in a center or room. Alternatively, users may choose to rate all Topic Areas in a single Cluster. Most simply, users may choose to rate only one Topic Area from a Cluster. Here are the three Clusters and the Topic Areas in each Cluster:

Cluster One: Mealtime Setting

Equipment Mealtime Environment Sanitation at the Table The Food Preventing Choking

Cluster Two: Children's Development

Food Intake Social and Emotional Development (Self-regulation) Mealtime Motor Skills Conversations (Listening and Speaking Skills)

Cluster Three: Guiding Individuals and Groups at Mealtimes

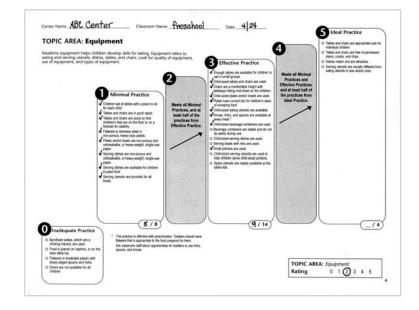
Routines and Schedules Adult Practices at Mealtimes Community Building

Directions for Using the BMER

Scoring

Each Topic Area earns a categorical rating. The categories are Inadequate Practice, Minimal Practice, Effective Practice, and Ideal Practice. Raters directly observe for the criteria listed under each category within each Topic Area.

Under each category, make a check beside the practice if it is observed. Total the number of checked items, and write that number in the oval in the lower right-hand corner of each category column. If all items are checked in a category, the category is considered complete, and a step is achieved.



()

The first category is Inadequate Practice. A rating of 0 is earned if ANY practices are observed in this category. Practices listed under this category are unsafe and potentially harmful to children. Note that this category is not a step in building quality mealtimes. It appears below the step threshold.

The first step and next category is **Minimal Practice**. If ALL items are checked in this category, a rating of 1 is earned. Practices in this category are necessary for providing an emotionally and physically safe environment.



The second step is reached by achievement of ALL of the items in **Minimal Practice**, and at least half of those in Effective Practice. A rating of 2 is earned.



2

The third step and category is Effective Practice. If ALL items are checked in this category in addition to ALL those in Minimal Practice, a rating of 3 is earned. Items in Effective Practice reflect practices that support and challenge children for healthy mealtime development.



5

The fourth step is reached by achievement of ALL of the items in Minimal Practice and ALL of the items in Effective Practice, and at least half of those in Ideal Practice. A rating of 4 is earned.

The fifth and highest step is Ideal Practice. This step is reached by achievement of all items in Minimal Practice and Effective Practice, plus ALL items described in the Ideal Practice category. Items in the Ideal Practice category represent practices that offer a comprehensive, highly supportive feeding environment for children. A rating of 5 is earned for reaching this step.

Assigning Ratings to the Scores

In the lower right-hand corner of each Topic Area page is a box to record the Topic Area rating, based on the steps achieved. Circle the number that indicates the highest step achieved in a Topic Area.

> **TOPIC AREA:** Equipment Rating 0 1 2 3 4 5

Graphing Ratings

A Summary Reporting Graph is provided to develop a visual representation of the ratings for a classroom (see pg. 19). Use a separate graph for each room that is rated. Place ratings on the graph by putting a dot on the graph for each Topic Area rating.

Resources

Guidelines from national agencies, professional organizations, and research literature provide a foundation for the items in each Topic Area. A bibliography is provided for raters to use to learn more about the items.

Cluster One: Mealtime Setting

Use the *Mealtime Setting* Cluster to examine the setting in which meals are served and eaten. This grouping of five Topic Areas focuses on the physical environment and practical surroundings of the mealtime.

Topic Areas in the *Mealtime Setting* Cluster:

Equipment - Mealtime equipment helps children develop skills for eating. Equipment refers to eating and serving utensils, dishes, tables, and chairs. Look for quality of equipment, use of equipment, and types of equipment.

Mealtime Environment - The physical space for eating includes the sights, sounds, smells, and layout of the mealtime area.

Sanitation at the Table - Sanitation at the table refers to the cleanliness of the feeding environment and the hygiene practices of those who are eating. Aspects of cleanliness are observed in how tables are cleaned, how spills are dealt with, and how adults ensure children's health and safety during passing and serving of food.

The Food - When determining what children are offered to eat, it is necessary to look at the total picture over a course of several menus. This section should be rated by examining written menus and speaking with caregivers, cooks, or the center director, as well as through direct observation.

Preventing Choking - Choking is a special hazard for young children who are just developing swallowing and chewing skills. Choking on food can be fatal to children. Adults must offer mealtime settings that minimize choking hazards.

Common choking hazards for young children are:

raw carrots raisins and other dried fruit whole grapes raw apples popcorn peanuts and other whole nuts chunks of peanut butter chunks of meat hot dogs (whole or cut into rounds) pretzels and chips

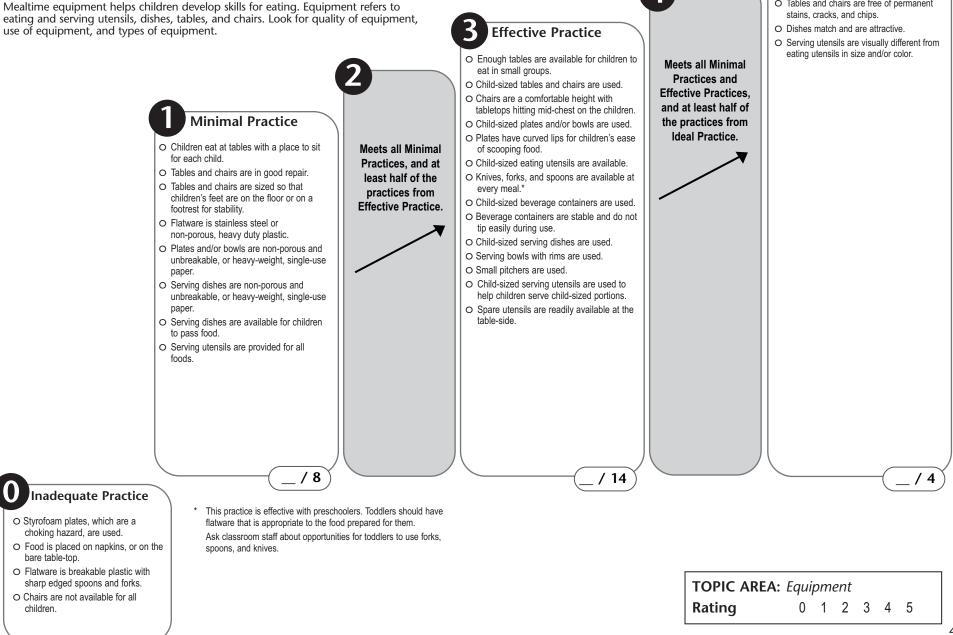
Guideline for food preparation:

Infants – Cut foods into pieces no larger than 1/4 inch cubes. Toddlers up to age 4 – Cut foods into pieces no larger than 1/2 inch cubes. **TOPIC AREA: Equipment**

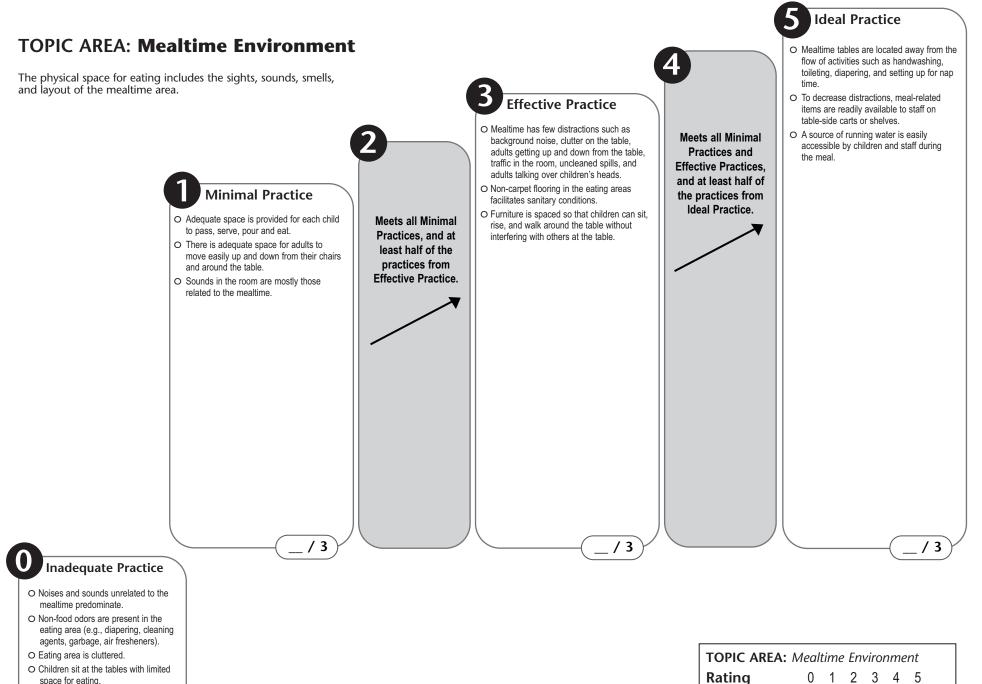
Date

Ideal Practice

- O Tables and chairs are appropriate size for individual children.
- O Tables and chairs are free of permanent stains, cracks, and chips.



space for eating. O Children stand or kneel to eat.

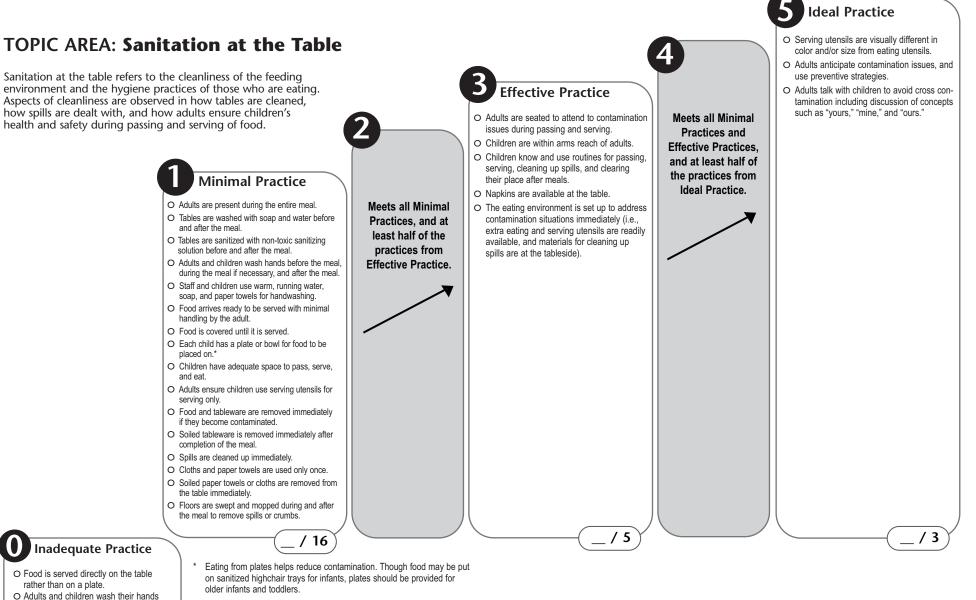


sporadically either before or after the

O Food arrives needing significant additional handling by the classroom staff.

meal, or not at all.
O Sponges or cloths are used and reused for clean-ups.
O Food sits uncovered, waiting to be

served.



TOPIC AREA:	Sa	nite	atio	n ai	t th	e Table
Rating	0	1	2	3	4	5

6

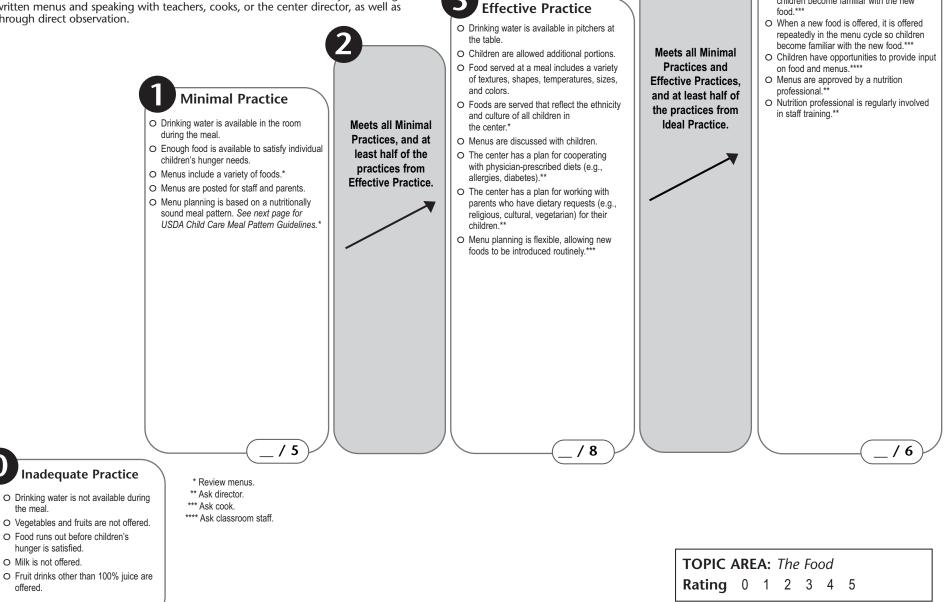
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Ideal Practice

- O Food is arranged in bowls or on platters to be visually appealing and appetizing.
- O When a new food is offered, it is offered more than one time during the meal so children become familiar with the new food ***

TOPIC ARFA: The Food

When determining what children are offered to eat, it is necessary to look at the total picture over a course of several menus. This section should be rated by examining written menus and speaking with teachers, cooks, or the center director, as well as through direct observation.



USDA Child Care Meal Pattern Guidelines

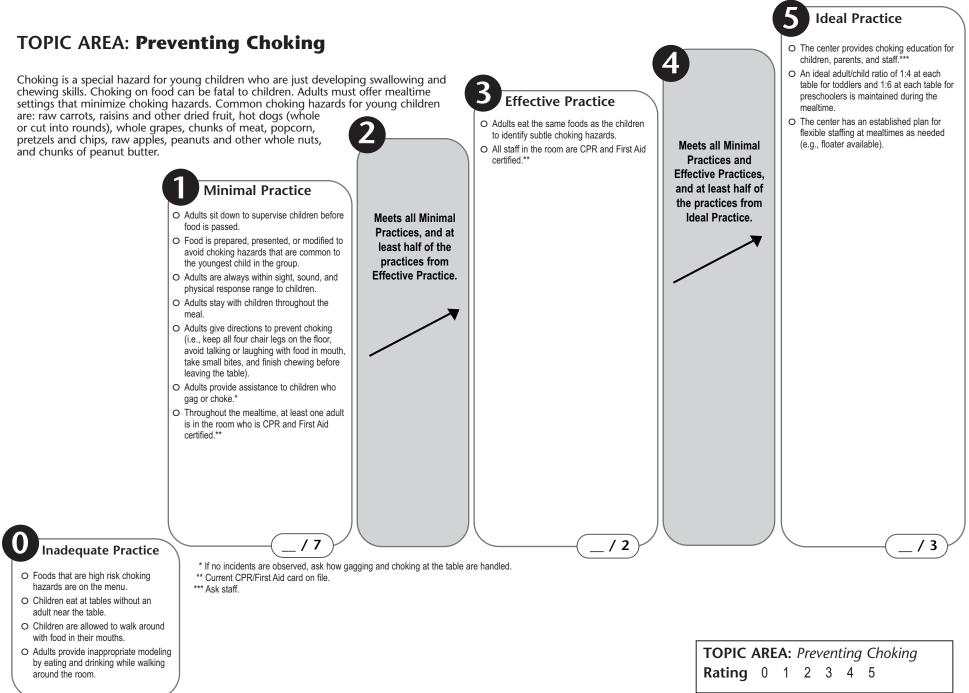
Breakfast	# per meal	Ages 1 - 2	Ages 3 - 5
Milk - fluid milk	1	1/2 cup	3/4 cup
ruit or vegetable or juice ²	1	1/4 cup	1/2 cup
Grains/bread ³ - bread, bread alternative, or cereal bread (enriched or whole-grain) cornbread/biscuit/roll/muffin cold dry cereal hot cooked cereal pasta/noodles/grains	1	1/2 slice 1/2 serving 1/4 cup 1/4 cup 1/4 cup	1/2 slice 1/2 serving 1/3 cup 1/4 cup 1/4 cup
unch or Supper ¹			
Ailk - fluid milk	1	1/2 cup	3/4 cup
Fruit or vegetable or juice ²	2	1/4 cup	1/2 cup
Grains/bread ³ - bread, bread alternative, or cereal bread (enriched or whole-grain) cornbread/biscuit/roll/muffin cold dry cereal hot cooked cereal pasta/noodles/grains	1	1/2 slice 1/2 serving 1/4 cup 1/4 cup 1/4 cup	1/2 slice 1/2 serving 1/3 cup 1/4 cup 1/4 cup
Meat/meat alternative meat/poultry/fish (cooked, lean meat without bone) alternate protein product cheese egg cooked dry beans or peas yogurt	1	1 oz. 1 oz. 1 oz. 1 oz. 1/2 1/4 cup 4 oz.	1 1/2 oz. 1 1/2 oz. 1 1/2 oz. 3/4 3/8 cup 6 oz.
Snack ¹ include two of the four components			
Milk - fluid milk	1	1/2 cup	1/2 cup
Fruit or vegetable or juice ²	1	1/2 cup	1/2 cup
Grains/bread ³ - bread, bread alternative, or cereal bread (enriched or whole-grain) cornbread/biscuit/roll/muffin cold dry cereal hot cooked cereal pasta/noodles/grains	1	1/2 slice 1/2 serving 1/4 cup 1/4 cup 1/4 cup	1/2 slice 1/2 serving 1/3 cup 1/4 cup 1/4 cup
Meat/meat alternative meat/poultry/fish alternate protein product cheese egg cooked dry beans or peas yogurt	1	1/2 oz. 1/2 oz. 1/2 oz. 1/2 1/8 cup 2 oz.	1/2 oz. 1/2 oz. 1/2 oz. 1/2 1/8 cup 2 oz.

¹ The meal patterns specify minimum portion sizes for each meal component. Children may be offered larger portions based on their greater food needs. They may not be offered less than the minimum quantities listed above. ² Fruit or vegetable juice must be full-strength, 100% juice.

³ Breads and grains must be made from whole-grain or enriched meal or flour. Cereal must be whole-grain or enriched or fortified.

Reference: United States Department of Agriculture (2004). Child and Adult Care Food Programs: Meal Pattern Requirements. Washington, D.C.

Date



Cluster Two: Children's Development

Use the *Children's Development* Cluster to examine the responsiveness and appropriateness of mealtime environments for children's physical, social, emotional, and cognitive needs. Cluster Two includes four Topic Areas.

Topic Areas in the *Children's Development* Cluster:

Food Intake - Adults help children stay in touch with their internal cues of hunger and fullness using many different strategies. This section includes strategies that support children to self-regulate their intake of food. Concepts for this Topic Area are the amount of food provided, whether or not children are allowed to serve themselves, and the level of children's choice in what and how much they eat.

Social and Emotional Development (Self-regulation) - During mealtimes, children learn skills that help them regulate their emotions and behaviors with others. Learning social skills such as passing and requesting food allows children to be successful during mealtimes. Gaining emotional skills such as trusting and making choices helps children become healthy eaters. Adults who have developmentally appropriate expectations of children set physical and emotional environments where children are challenged, but not frustrated.

Mealtime Motor Skills - Mealtimes offer opportunities for children to develop physical skills. Serving style at the table, utensils and dishes provided, and how food is presented impact the physical skills that children practice during meals.

Conversations (Listening and Speaking Skills) - This Topic Area is focused on the talk that takes place during the meal. This talk ranges from adults giving directions to children, to adults and children using give and take in their conversations. Observations in this Topic Area include examinations of how adults encourage or extend children's talk at the meal.

Date __

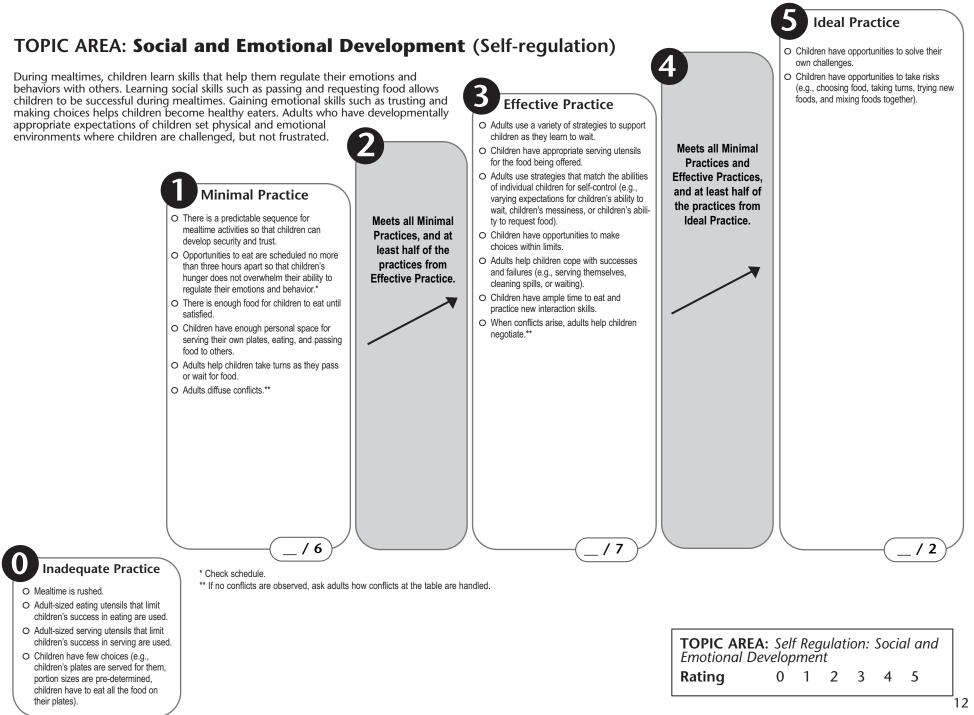
Ideal Practice TOPIC AREA: Food Intake O Adults have a system for informing parents about what their child ate Adults help children stay in touch with their internal cues of hunger and fullness using throughout the day.**** many different strategies. This section includes strategies that support children to O Adults have a system for informing self-regulate their intake of food. Concepts for this Topic Area are the amount of food **Effective Practice** parents about how much their child provided, whether or not children are allowed to serve themselves, and the level of ate throughout the day.**** children's choice in what and how much they eat. Meets all Minimal O Staff, in addition to the cook, cooperate in determining how much total food is neces-Practices and sary to meet the group's hunger needs.*** **Effective Practices.** O Adults assure children that there is and at least half of enough food. the practices from O Children have enough time to eat until they **Minimal Practice Ideal Practice.** are no longer hungry. O Adults do not praise children for finishing O Children serve themselves, at least part of Meets all Minimal food, or cleaning their plates. the meal Practices, and at O Enough food is available to satisfy individual least half of the children's hunger needs. practices from O Adults support children as they learn how to **Effective Practice.** choose portion sizes to match how much they can eat. O Children are not required to eat either a set amount of food, or a particular food.* O Children are not required to try or taste a food they refuse.* O Adults acknowledge children's differences and preferences for food, but do not compare children's eating characteristics. O Food is offered at least every three hours so that children's hunger does not overwhelm their ability to self-regulate food intake.** / 7 4 **Inadequate Practice**

O Not enough food is available to satisfy children's hunger.

- O Adults determine how much food is placed on children's plates.
- O Adults insist that children eat more or less than they want.
- O Children are required to eat all the food on their plates.
- O Adults talk negatively about children's eating characteristics to staff or parents, within hearing range of children.
- O Adults compare children's behaviors and characteristics as a strategy to get children to eat.

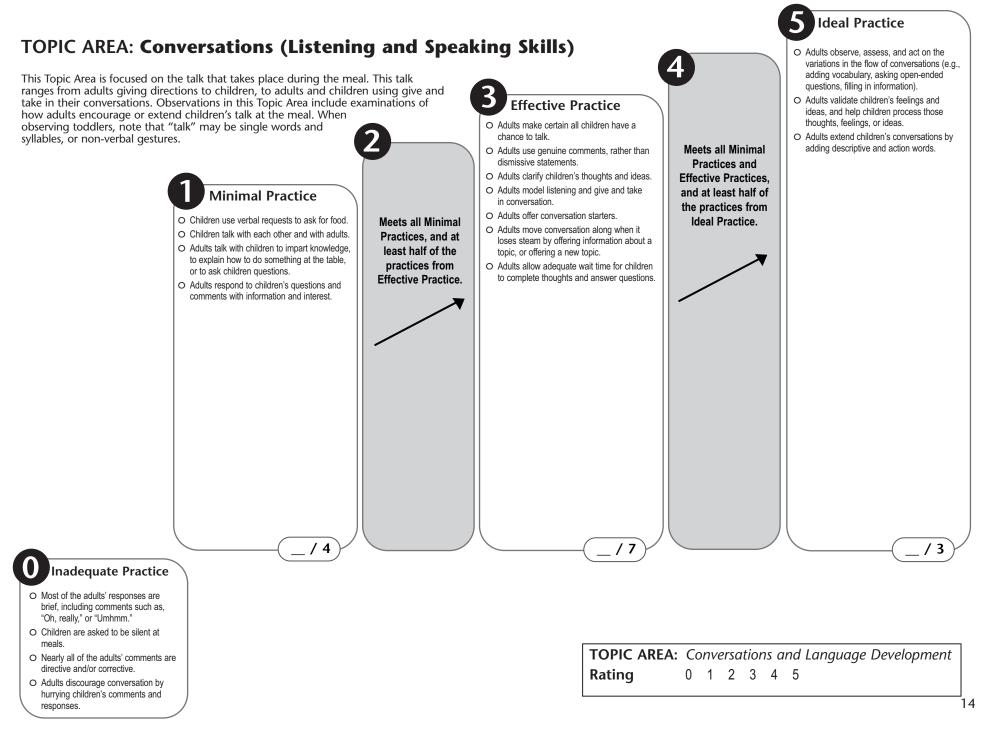
- * Exception may be made if a documented health order is on file. ** Check schedule.
- *** Ask how the cook determines the amount of food to be prepared. **** Ask staff to see forms used to report to parents.

TOPIC AREA: Food Intake 0 1 2 3 4 5 Rating



Date _

Ideal Practice TOPIC AREA: Mealtime Motor Skills O Children have non-meal opportunities to experiment with serving and eating equipment (e.g., sand and water tables include Mealtimes offer opportunities for children to develop physical skills. Serving style at pitcher and cups for pouring, or art centers the table, utensils and dishes provided, and how food is presented impact the include plastic knives for cutting clav or plavphysical skills that children practice during meals. **Effective Practice** dough).**** O Adults give specific directions to individual O Menus allow for opportunities to spread, children to reinforce motor skills. pour, spear, ladle, and cut a variety of foods.** Meets all Minimal O Adults model skills for eating and serving, offering a physical model paired with a O Food is prepared and presented considering Practices and verbal description of what they are doing. children's physical skills for passing and **Effective Practices.** serving food. Minimal Practice and at least half of O Knives, forks, and spoons, and/or culturally the practices from relevant utensils are available at every O Food is prepared and presented so that **Ideal Practice.** Meets all Minimal meal.*** children can eat independently. Practices, and at O The mealtime schedule allows time for O Child-sized serving utensils are available. children to practice using utensils. least half of the O Child-sized eating utensils are available. O Serving bowls and pitchers are not too full practices from O Children pass and serve some items from or too heavy for children to serve Effective Practice. serving dishes.* themselves O Utensils offered are appropriate for the food O Adults allow children time to try skills served (e.g., fork for a salad). without stepping in prematurely. O Adults respond calmly and non-punitively to O Adults use hand-over-hand assistance only spills and imprecise motor movements when necessary to assist a child in learning during eating and serving. a new skill or when a child is frustrated. O Adults plan menus to match children's biting and chewing skills, including attention to consistency, size, hardness, shape, and how children can move the food around in their mouths.** / 6 / 8 / 3 Inadequate Practice * When toddlers arrive at the table very hungry, it is appropriate to serve initial small portions, with toddlers self-serving additional portions after their hunger has lessened. O Adults are unavailable to model eating ** Review menus. and mealtime skills *** This practice is effective with preschoolers. Toddlers should have flatware that is appropriate to the food prepared for them. Ask classroom staff about opportunities for toddlers to use forks, spoons, and knives. O Adults serve all foods onto children's **** Ask classroom staff. plates. O Children's sole utensil is either a spoon **TOPIC AREA:** Mealtime Motor Skills or a fork. Rating O Children are served only finger foods. 0 1 2 3 4 5



Cluster Three: Guiding Individuals and Groups at Mealtimes

Use the *Guiding Individuals and Groups at Mealtimes* Cluster to examine strategies for successfully leading mealtimes that support individual eating skills, and to observe strategies that help build children's skills for eating in groups. Cluster Three includes three Topic Areas.

Topic Areas in the Guiding Individuals and Groups at Mealtimes Cluster:

Routines and Schedules - Routines and schedules help children feel secure and trusting. They also help adults manage the meal environment. Routine refers to the sequence and process of the mealtime. Schedule refers to the timing of meals in the daily plan and the time allowed for eating.

Adult Practices at Mealtime - Adults set the feeding environment for children. This section includes an examination of adults' practices at the table. This examination focuses on how adults assist children, whether or not adults eat with the children, and how adults respond to what children do.

Community Building - Meals are a time for building community. Community members help each other and show respect for each other. They take turns with each other and share thoughts and activities. Adults set a feeding environment that helps children develop a sense of community around mealtimes.

/ 5

Date

/ 5

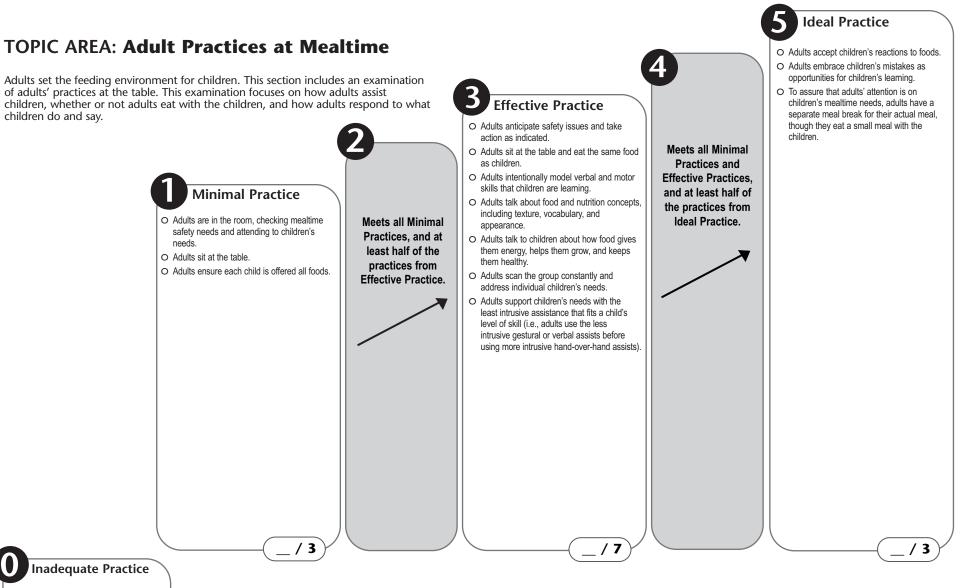
Ideal Practice TOPIC AREA: Routines and Schedules O Mealtime routines are designed to guide children's skills (e.g., taking turns, learning about new foods, and practicing spearing, Routines and schedules help children feel secure and trusting. They also help adults spreading, serving, and pouring). manage the meal environment. Routine refers to the sequence and process of the O Enough staff are available to facilitate safe, **Effective Practice** mealtime. Schedule refers to the timing of meals in the daily plan, and the time smooth post-meal transitions such as allowed for eating. toileting and transitioning to nap or other O Serving routines minimize children having to activities. wait before beginning to eat. Meets all Minimal O Children help maintain the meal environment by setting tables, helping to Practices and clean spills, and clearing dishes. **Effective Practices.** O Adults expect and respond to minor **Minimal Practice** and at least half of variations in routines, but still keep mealthe practices from times focused. O Adults use established pre-meal, during **Ideal Practice.** Meets all Minimal O End of meal routines offer transition meal, and post-meal routines. activities so that a child can independently Practices, and at O A majority of the children know and use an leave the table as he or she finishes the least half of the established sequence for mealtime activities. meal. practices from O Adults sit with the children to support and O Transition from eating to subsequent Effective Practice. maintain routines. activities is routine and orderly. O Adequate time is scheduled for children to finish their meal without hurrying. O During end of the meal transitions, an adult visually oversees children at the table until the last child is finished.

Inadequate Practice

- O Mealtime routines support managing the setting rather than guiding children's skills.
- O End time for the meal is governed by the clock, rather than by children's needs.
- O Mealtime is scheduled for staff and center convenience rather than around children's needs. (i.e., adults hurry children to eat to meet a schedule).
- O Mealtime rules are applied rigidly.

TOPIC AREA: Routines and Schedules Rating 0 1 2 3 4 5

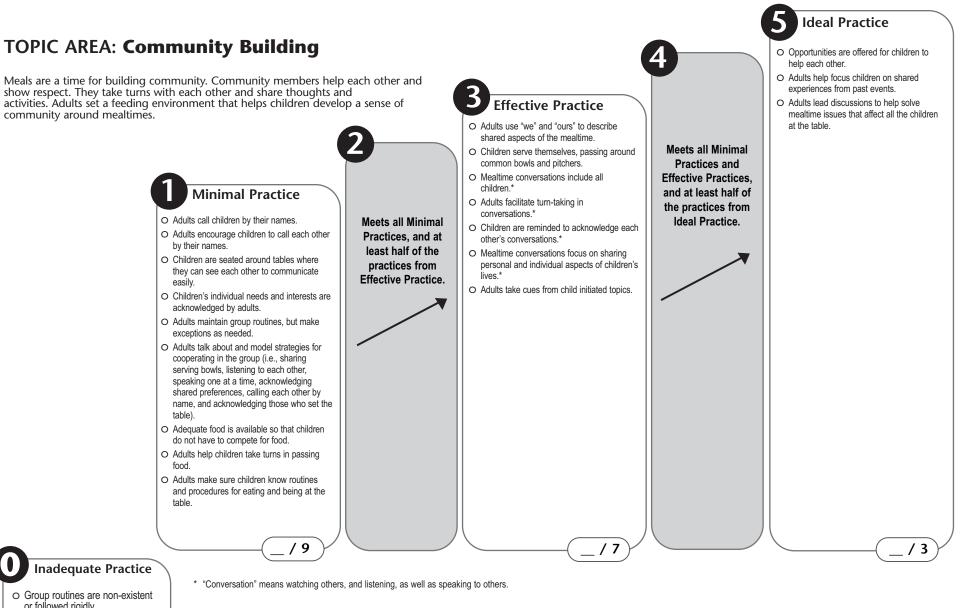
2



- O Adults sometimes leave the room during part of the mealtime.
- O Adults offer little or no assistance to children.
- O Adults over-help children to the point of interfering with their independence and learning.

TOPIC AREA:	Ad	ult	Pra	ctic	es a	t Mealtime
Rating	0	1	2	3	4	5

Date _



	or ronowod rigidiy.
0	Children are told to mind their
	own business if they show
	interest in others.

 Adults compare children's behaviors as a strategy to get children to eat.

TOPIC AREA: Community Building							
Rating	0	1	2	3	4	5	

_____ Date _____

BMER Summary Recording Graph

Place a mark in the white bar that corresponds with the rating for each Topic Area.

Ideal Practice	5											
Effective Practice												
Minimal Practice	1											
Inadequate Practice	0 Equipment	Mealtime Environment	Sanitation at the Table	The Food	Preventing Choking	Food Intake	Social & Emotional Development (Self-regulation)	Mealtime Motor Skills	Conversations (Listening & Speaking Skills)	Routines & Schedules	Adult Practices at Mealtime	Community Building

Guidelines for Feeding Young Children in Group Settings

National guidelines from agencies and professional organizations were used as foundations for items for the BMER Inventory. The following is a bibliography of those guidelines.

American Academy of Pediatrics, American Public Health Association, and National Resource Center for Health & Safety in Child Care (AAP, APHA & NRCHSCC)

- (2002). Caring for our children national health and safety performance standards: *Guidelines for out-of-home child care* (2nd ed.). Elk Grove Village, IL: American Academy of Pediatrics.
- The following chapters were used:
- Chapter 3 Health promotion & protection in child care (pp. 83-146)
- Chapter 4 Nutrition and food service (pp. 147-186)
- Chapter 5 Facilities, supplies, equipment, & transportation (pp. 187-282)

American Dietetic Association (1999). Nutrition standards for child-care programs: Position of ADA. *Journal of American Dietetic Association*, 99(8), 981-988.

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 - (2002 ed.). Washington, DC: National Association for the Education of Young Children. The following chapters were used:
 - Chapter 3 Preventing Injuries (pp. 23-36)
 - Chapter 5 Promoting health with good nutrition (pp. 47-71)
 - Chapter 9 Facility design & support services for safe & healthy child care (pp.119-133)

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Topic Area: Sanitation at the Table

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School of Family and Consumer Sciences, College of Agricultural and Life Sciences, University of Idaho, Moscow, Idaho 83844

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