## Feeding Infants: 0-5 Months

A Training Presentation for Child and Adult Care Food Program (CACFP) Operators



## **USDA's Team Nutrition**



- An initiative of the USDA's Food and Nutrition Service to support the USDA's Child Nutrition Programs.
  - Aims to improve children's lifelong eating and physical activity habits.
  - Provides nutrition education and training materials to State agencies, sponsoring organizations, and CACFP sites.





## Let Us Know Who You Are! I work for a...

- A. Child Care Center
- B. Family Child Care Home
- C. At-risk Afterschool Care Center
- D. Adult Day Care Center
- E. Sponsoring Organization
- F. Emergency Shelter
- G. School Food Authority
- H. State Agency
- I. USDA Regional Office
- J. Other

## What is the CACFP Infant Meal Pattern?

	0-5 Months	6-11 Months
Breakfa st	4-6 fl. oz. breastmilk or formula	<ul> <li>6-8 fl. oz. breastmilk or formula</li> <li>0-4 tbsp. infant cereal, meat, fish, poultry, whole egg, cooked dry beans and peas; or 0-2 oz. cheese; or 0-4 oz. yogurt; or a combination</li> <li>0-2 tbsp. vegetable, fruit, or both</li> </ul>

#### **Abbreviations:**

fl. oz. = fluid ounces • tbsp. = Tablespoon • oz. = ounces

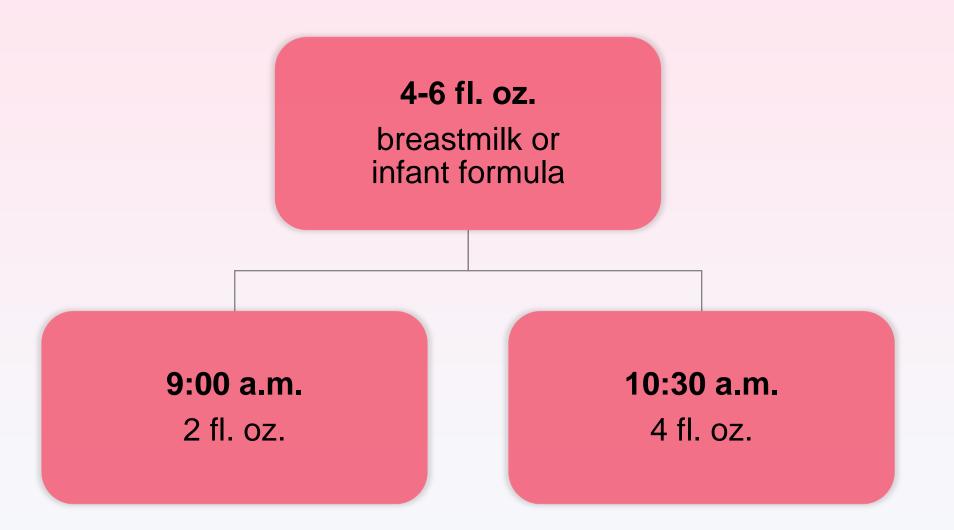
## **Infants 0-5 Months**

	0-5 Months
Breakfast	4-6 fl. oz. breastmilk or formula
Lunch or Supper	4-6 fl. oz. breastmilk or formula
Snack	4-6 fl. oz. breastmilk or formula

#### Abbreviations:

fl. oz. = fluid ounces

## **Sample Breakfast Meal**



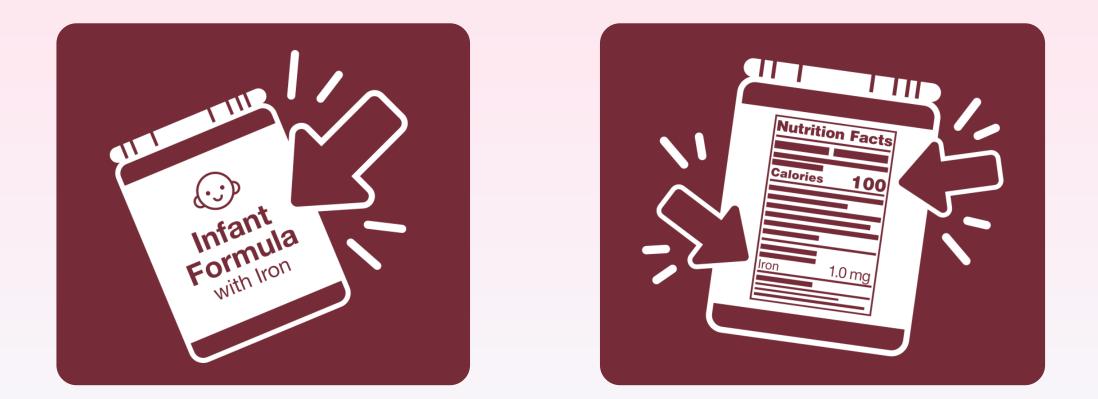
## Do I give a baby breastmilk or formula?

Speak with the baby's parents. They may choose to:

- 1. Use the iron-fortified infant formula you provide.
- 2. Decline the one you provide, and bring their own iron-fortified infant formula.
- 3. Provide breastmilk or breastfeed at your site.
- 4. Provide breastmilk and supplement with the iron-fortified infant formula you provide.
- 5. Provide breastmilk and provide their own iron-fortified infant formula.

You can claim the meal for reimbursement in any of these situations.

## **Iron-Fortified Infant Formula**



You must offer at least one iron-fortified infant formula that is regulated by the Food and Drug Administration.

## What if a Baby is Still Hungry?

Talk to the baby's parents. You can:

- Encourage them to bring in a back-up supply of breastmilk.
- Ask if they would like you to offer iron-fortified infant formula to their baby.



## **Feed Babies On Demand**

Feed a baby when he or she shows signs of hunger:

- Makes sucking noises
- Sucks on hands, fingers, toes
- Reaches for a bottle
- Rooting
- Crying is a late sign of hunger





## **Try It Out!** These are all signs that a baby is hungry, *except*.

Choose one of the following:

- A. Makes sucking noises
- B. Seals lips together
- C. Rooting
- D. Sucks on hands

### Answer

These are all signs that a baby is hungry, *except*.

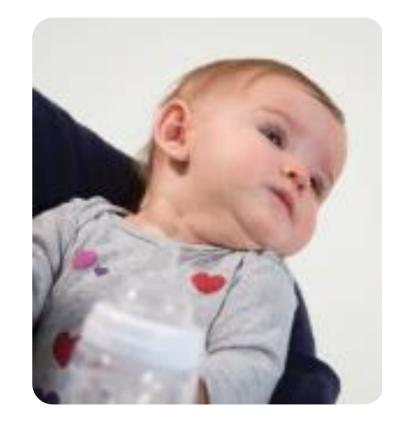
Choose one of the following:

- A. Makes sucking noises
- **B**. Seals lips together
- C. Rooting
- D. Sucks on hands

## **Reading Signs of Fullness**

Stop a feeding when you see one or more of these signs:

- Stops sucking or slows down sucking
- Falls asleep
- Turns head away
- Seals lips together
- No longer pays attention during the feeding



## **Try It Out!** These are all signs that a baby is full, *except*:

Choose one of the following:

- A. Falls asleep
- B. Seals lips together
- **C**. Stops sucking or slows down sucking
- D. Rooting

## Answer

These are all signs that a baby is full, *except*.

Choose one of the following:

- A. Falls asleep
- B. Seals lips together
- C. Stops sucking or slows down suckingD. Rooting

## **A Baby's Usual Eating Habits**

- Offer the full minimum amount of breastmilk or infant formula when the baby is hungry.
- Some babies may eat less than what you offer that's okay!
- Never force a baby to finish the bottle.



# 2

#### Try It Out!

Baby Zoe is rooting and is making sucking noises. Marta, her child care provider, can tell Baby Zoe is hungry. Marta prepares a bottle containing 6 fl. oz. of breastmilk. Baby Zoe is full after eating 3 fl. oz. of breastmilk and does not finish her bottle.

Can Marta still claim the 3 fl. oz. of breastmilk as a reimbursable meal?

Yes

No

## 2

#### Answer

Baby Zoe is rooting and is making sucking noises. Marta, her child care provider, can tell Baby Zoe is hungry. Marta prepares a bottle containing 6 fl. oz. of breastmilk. Baby Zoe is full after eating 3 fl. oz. of breastmilk and does not finish her bottle.

Can Marta still claim the 3 fl. oz. of breastmilk as a reimbursable meal?

**⊠** Yes

No

## **Breastfeeding On-Site**

- Offer mothers a clean, comfortable, and quiet place to breastfeed her baby.
  - Small room
  - Corner of a classroom
  - Office
- The space may include:
  - A pillow for mom to support baby
  - A foot stool
  - A comfortable chair



## Try It Out!

Mom comes in around lunch to breastfeed her baby at your child care site. You don't know how much breastmilk the baby had since she was breastfed. Can you claim this as part of a reimbursable lunch?

Yes

No

## 2

#### Answer

Mom comes in around lunch to breastfeed her baby at your child care site. You don't know how much breastmilk the baby had since she was breastfed. Can you claim this as part of a reimbursable lunch? Yes No

## Review

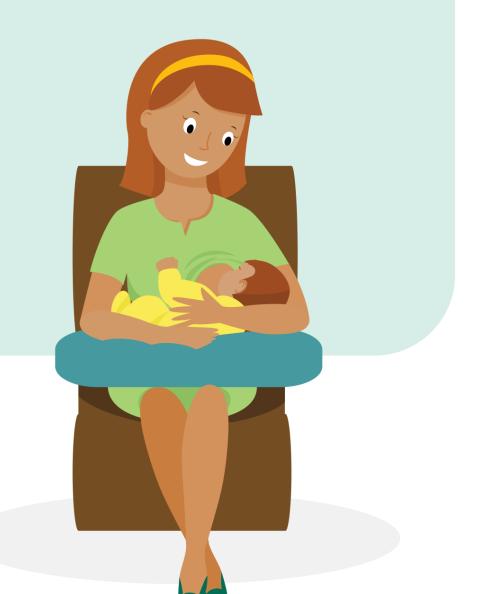
## Questions

- Infant CACFP Meal Pattern (0-5months)
- Iron-Fortified Infant Formula
- Baby Hunger Signs
- Feeding Babies on Demand
- Reading Signs of Fullness
- A Baby's Usual Eating Habits
- Breastfeeding On-Site

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How to Support Breastfeeding in the CACFP

A Training Presentation for Child and Adult Care Food Program (CACFP) Operators



## **Benefits of Breastfeeding**

#### **Breastfed babies may have:**

- lower risk of asthma
- fewer ear and respiratory infections
- lower risk of SIDS
- fewer infections that cause vomiting and diarrhea
- lower risk of becoming obeseand more!

#### Mothers who breastfeed may:

- have less blood loss after childbirth
- feel more relaxed
- have lower risk of ovarian and certain types of breast cancer
- have lower risk of Type 2 diabetes
- and more!

### How the CACFP Meal Patterns Support Breastfeeding

- Provide reimbursement to CACFP operators if the mother breastfeeds on-site.
- Encourage mothers to supply breastmilk for their child while in child care.
- Offer a quiet, private area that is comfortable and sanitary for mothers who come to your child care site to breastfeed.



## **Creating a Breastfeeding-Friendly Environment**

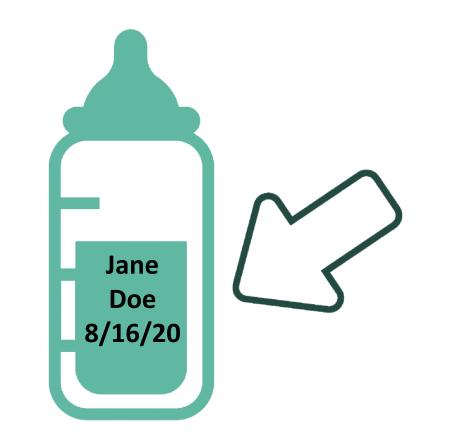
If possible, offer a quiet, comfortable place to breastfeed or pump that includes:

- Drinking water
- Pillow
- Disinfectant wipes
- Table
- Electrical outlet
- Stool
- Comfortable chair



## **Receiving Breastmilk at the Child Care Site**

- Bottles should be labeled with:
  - Baby's full name
  - Date the breastmilk was pumped and thawed
- Bottles containing breastmilk should be kept in the refrigerator or freezer until it is time to feed the baby



If State child care licensing regulations or local health codes for handling and storing breastmilk are stricter, follow those regulations.

### **Storing Breastmilk at Your Child Care Site**

If your State or local authorities have stricter regulations, follow those.

<u>Guidance</u>	<u>Countertop</u> 77 °F (25 °C) or colder (room temperature)	<u>Refrigerator</u> 40 °F (4 °C)	<u>Freezer</u> 0 °F (-18 °C) or colder
Freshly pumped breastmilk	Do not use after 4 hours	Do not use after 3 days (72 hours)*	Within 6 months is best. Do not use after 12 months.
Thawed breastmilk	Do not use after	Do not use after	Never refreeze
	1–2 hours	1 day (24 hours)	thawed breastmilk
<b>Leftover from a feeding</b> (baby did not finish the bottle)	Do not use after 2	Do not use after	Do not use after
	hours after the	2 hours after the	2 hours after the
	baby is finished	baby is finished	baby is finished
	feeding.	feeding.	feeding.

\*CACFP operators may store breastmilk in the refrigerator for up to 3 days (72 hours). This is stricter than the guidelines for storing breastmilk at home.

## Try It Out!

How long can child care sites participating in the CACFP store freshly pumped breastmilk in the refrigerator?

- A. 1 day (24 hours)
- B. 6 months
- C. 3 days (72 hours)
- D. It cannot be stored



## Answer

How long can child care sites participating in the CACFP store freshly pumped breastmilk in the refrigerator?

- A. 1 day (24 hours)
- B. 6 months
- **C**. 3 days (72 hours)
- D. It cannot be stored



### **Storing Breastmilk at Your Child Care Site**

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Thawed breastmilk	Do not use after 1–2 hours	Do not use after 1 day (24 hours)	Never refreeze thawed breastmilk
Leftover from a feeding (baby did not finish the bottle)	Do not use after 2 hours after the baby is finished feeding.	Do not use after 2 hours after the baby is finished feeding.	Do not use after 2 hours after the baby is finished feeding.
*CACFP operators may stor	e breastmilk in the re	frigerator for up to 3	days (72 hours). This

is stricter than the guidelines for storing breastmilk at home.

## **Thawing Frozen Breastmilk**



Only thaw the amount of breastmilk needed for one feeding.



You can thaw frozen breastmilk:

- In the refrigerator overnight
- In a container of warm water
- Under warm running water



Never thaw frozen breastmilk:

- At room temperature
- By mixing the frozen breastmilk with warm breastmilk
- By placing in boiling water
- By heating in a microwave

### Storing Breastmilk at Your Child Care Site

If your State or local authorities have stricter regulations, follow those.

<u>Guidance</u>	<u>Countertop</u> 77 °F (25 °C) or colder (room temperature)	<u>Refrigerator</u> 40 °F (4 °C)	Freezer 0 °F (-18 °C) or colder
Freshly pumped breastmilk	Do not use after 4 hours	Do not use after 3 days (72 hours)*	Within 6 months is best. Do not use after 12 months.
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*CACFP operators may sto	re breastmilk in the	refrigerator for up to	3 days (72 hours).

This is stricter than the guidelines for storing breastmilk at home.

# 2

#### Try It Out!

A bottle of breastmilk should be labeled with the baby's full name and the date(s) the breastmilk was pumped and thawed. TrueFalse



#### Answer

A bottle of breastmilk should be labeled with the baby's full name and the date(s) the breastmilk was pumped and thawed.

## ✓ True✓ False

If State child care licensing regulations or local health codes for handling and storing breastmilk are stricter, follow those regulations.



# 2

#### Try It Out! How can a child care provider safely thaw frozen breastmilk?

- A. Place the bottle in boiling water
- B. Place in refrigerator, thaw overnight
- C. Thaw at room temperature, up to 4 hours
- D. Heat in the microwave



# 2

#### Answer

How can a child care provider safely thaw frozen breastmilk?

- A. Place the bottle in boiling water
- **B.** Place in refrigerator, thaw overnight
- C. Thaw at room temperature, up to 4 hours
- D. Heat in the microwave



#### Feeding the Breastfed Baby

- Bottles should remain in the refrigerator until it is time to feed the baby.
- Feed a baby when he or she shows signs of hunger.
- Gently swirl the breastmilk if needed. Do not shake.



### **Preparing a Bottle of Breastmilk**

- A bottle of breastmilk does not have to be warmed before a feeding. If it is, it can be placed:
  - under warm running water, or
  - in a container of warm water
- Never put infant cereal or other foods or beverages in the bottle.



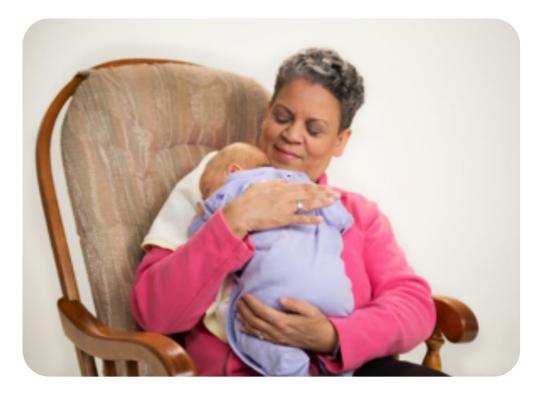
#### **Bottle Feeding the Breastfed Baby**

- 1. Hold the baby during feeding.
- 2. Brush the bottle's nipple across the baby's upper lip.
- 3. Use a slow flow bottle nipple and hold the bottle mostly sideways.



#### **Bottle Feeding the Breastfed Baby**

- 4. Burp the baby during natural breaks in the feeding.
- 5. Switch which arm you use to hold the baby throughout the feeding.
- 6. Stop the feeding when baby shows signs of fullness.



### Review

#### Questions

- Creating a breast feedingfriendly environment
- Receiving breastmilk at a facility
- Storing breastmilk at a facility
- Thawing frozen breastmilk
- Feeding the breastfed baby



## Feeding Infants: Starting with Solids

A Training Presentation for Child and Adult Care Food Program (CACFP) Operators



#### **Developmental Readiness**



Sits in a high chair with good head control.



Opens her mouth when foods come her way or reaches for food.



Uses her tongue to move food from the spoon into her mouth to swallow the food without pushing it out.

## **Feeding Solid Foods Too Early**

Feeding solid foods before a baby is developmentally ready may increase the chance that he or she will:

- $\checkmark$  choke on the food.
- ✓ drink less breastmilk or infant formula than needed in order to grow.
- ✓ be overweight or obese later in life.



# 2

**Try It Out!** Baby Jonathan is 5½ months old. He can sit when his mom holds him tight, but he does not have good head and neck control. Is Baby Jonathan developmentally ready for solid foods?

Yes

No

#### Answer

Baby Jonathan is 5½ months old. He can sit when his mom holds him tight, but he does not have good head and neck control. Is Baby Jonathan developmentally ready for solid foods?

□ Yes

# 2

#### **Try It Out!**

Baby Kara is 5<sup>1</sup>/<sub>2</sub> months old. She can sit up on her own with little assistance, has good head control, and keeps reaching for food when it is near. When Baby Kara tried a bite of food she was able to move it to the back of her throat to swallow.

Is Baby Kara developmentally ready for solid foods?

Yes

No

#### Answer

Baby Kara is 5<sup>1</sup>/<sub>2</sub> months old. She can sit up on her own with little assistance, has good head control, and keeps reaching for food when it is near. When Baby Kara tried a bite of food she was able to move it to the back of her throat to swallow.

Is Baby Kara developmentally ready for solid foods?

☑ Yes

No

### **Infant Meal Pattern**

(breakfast, lunch, and supper)

Lunch or Supper	0 through 5 Months	6 through 11 Months
Breastmilk or Infant Formula	4-6 fl.oz. breastmilk or formula	6-8 fl.oz. breastmilk or formula
Grains or Meat/Meat Alternates, or a combination		0-4 tbsp. infant cereal; meat, fish, poultry, whole eggs, cooked dry beans or peas; or 0-2 oz. cheese; or 0-4 oz. cottage cheese; or 0-4 oz. (1/2 cup) yogurt; or a combination of the above
Vegetables, Fruit, or both		0-2 tbsp. vegetable, fruit, or both

#### What Are Solid Foods?

Foods that are easy and safe for a baby to eat once he or she is developmentally ready.









#### Try It Out!

A parent asks you to start serving their 5-month-old baby solid foods at your child care site, but you know the infant meal pattern age groups are 0 through 5 months and 6 through 11 months. If you serve the baby solid foods at 5 months, can you still claim reimbursement for his meals and snacks?

Yes

No

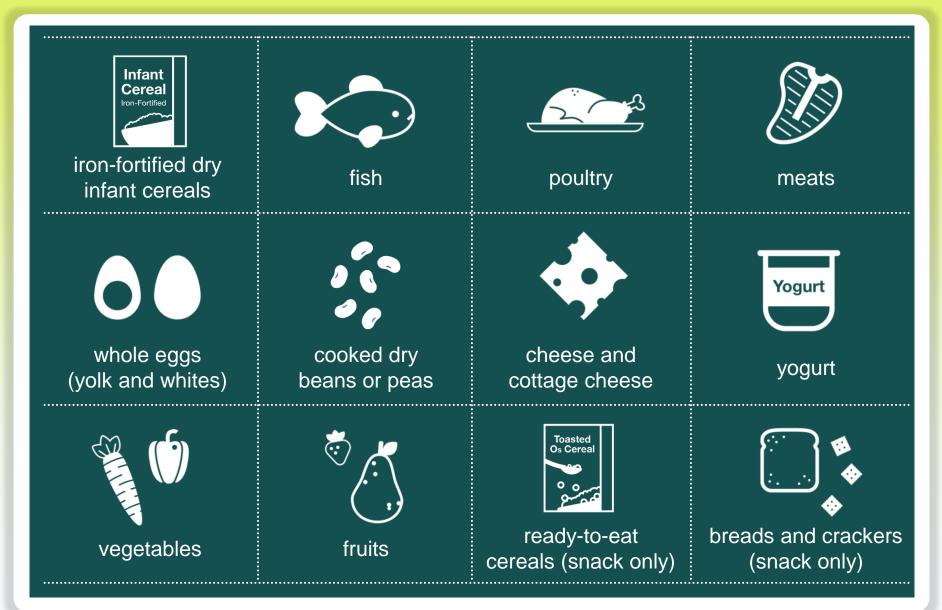
#### Answer

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☑ Yes

No

### **Solid Foods in the Infant Meal Pattern**

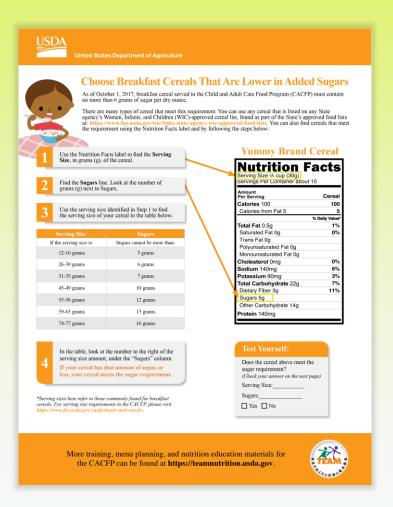


#### Grains

- Iron-fortified infant cereal
  - Breakfast, lunch and supper, or snack
- Breads
  - Snack only
- Crackers
  - Snack only
- Ready-to-eat cereals
  - Snack only
  - Must meet the sugar limit (6 grams per dry ounce)



#### Choose Breakfast Cereals That Are Lower in Added Sugars



fns.usda.gov/team-nutrition/cacfp-meal-pattern-training-worksheets

#### **Iron-Fortified Infant Cereal**

- Infant cereal must be iron-fortified
- Single and mixed-grain cereals are creditable
  - Offer single grain first, then mixed-grain
- To tell if an infant cereal is "iron-fortified"
  - It may say "iron-fortified" on the package
  - Look at the ingredient list
    - Iron
    - Ferric fumarate
    - Electrolytic iron
    - Iron (electrolytic)



INGREDIENTS: WHOLE GRAIN WHEAT FLOUR, WHOLE GRAIN OAT FLOUR, OAT FLOUR, RICE FLOUR, WHOLE GRAIN RYE FLOUR, VITAMINS AND MINERALS: CALCIUM CARBONATE, VITAMIN C (ASCORBIC ACID), IRON (ELECTROLYTIC), ZINC SULFATE, VITAMIN E (ALPHA TOCOPHERYL ACETATE), NIACINAMIDE\*, VITAMIN B2 (RIBOFLAVIN), VITAMIN B1 (THIAMIN MONONITRATE), VITAMIN B6 (PYRIDOXINE HYDROCHLORIDE), VITAMIN B12, FOLIC ACID\*.

#### **Meat and Meat Alternates**

- Meats and poultry
- Fin fish and shellfish
- Whole eggs
- Beans and peas

- Cheese
- Cottage cheese
- Yogurt
  - must meet the sugar limit



\*Prepare foods so that they are the right shape, size, and texture.

#### Choose Yogurts That Are Lower in Added Sugars

(CACFF	) must not have more th	an 23 grams of sug	nd Adult Care Food Program ar per 6 ounces. rement. It is easy to find them by
	e Nutrition Facts label an Use the Nutrition Facts Lab Serving Size, in ounces (or of the yogurt.	bel to find the	Nutrition Facts
2	2 Find the Sugars line. Look at the number of grams (g) next to Sugars.		Amount Per Serving Calories 130 Calories from Fat 20 % Deliv Value
3	3 Use the serving size identified in Step 1 to find the serving size of your yogurt in the table below.		Total Fat 20         3%           Saturado Fat 1.50         9%           Trans Fat 00         9%           Cholesterol Tong         3%           Potassium 400mg         1%
Servin Size Ounces	Grams (g) (December the surging civ	Sugars Grams (g)	Sodium 100mg 7% Total Carbohydrate 21g 7% Diatal Carbohydrate 21g 7% Sugars 9g 17% Sugars 9g
	If the serving size is:	Sugars must not be more than:	Protein 10g Vitamin A 6% Vitamin C 4% Calcium 35% Iron 0%
2.25 0	z 64 g	9 g	Vitamin D 6%
3.5 0	99 g	13 g	
4 oz	113 g	15 g	Test Yourself:
5.3 0	t 150 g	20 g	
6 oz	170 g	23 g	Does the yogurt above meet the sugar requirement?
8 oz	227 g	31 g	(Check your answer on the next page)
4	In the table, look at the number to the right of the serving size amount, under		Serving Size:
not credite		ig size requirements of y	ught yogurts. Homemade yogurt is yogurt in the CACPE: please visit

fns.usda.gov/team-nutrition/cacfp-meal-pattern-training-worksheets

## **Vegetables and Fruits**



All vegetables and fruits can be offered.



Fruit and vegetable juices are not creditable.

Includes 100% juice

\*Prepare foods so that they are the right shape, size, and texture.

## **Tips for Feeding a Baby Solid Foods**

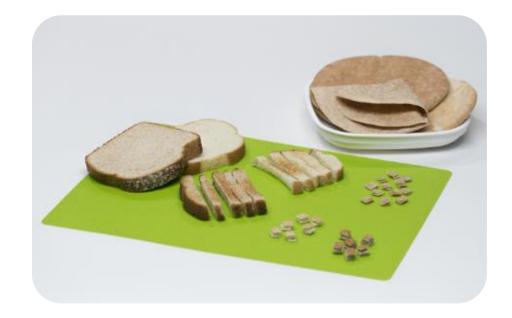
- 1. If using jarred baby food, spoon some out and put it in another bowl.
- 2. Sit and talk to the baby during the feeding.
- 3. If ready, let the baby feed him or herself.
- 4. Watch the baby during a feeding for signs of:
  - Allergic reaction
  - Choking
- 5. Throw away uneaten food.



## **Choking Prevention**

Prepare foods so that they are the right shape, size, and texture:

- Grind tough meat
- Cook or steam food until soft
- Food should be no larger than ½-inch pieces or thin slices or strips
- Remove pits, seeds, skins, and peels from vegetables and fruit
- Remove bones from meats, poultry, fish



#### **Parent Provided Food Component**

If a parent brings in	You must offer
Breastmilk	All other solid food components
Iron-fortified infant formula	All other solid food components
A solid food component (for example pureed meat)	Iron-fortified infant formula All other solid food components

#### **Try It Out!**

You notice that a baby in your care is developmentally ready for solid foods, and the parents agree. The parents tell you that their baby has had pureed sweet potatoes at home, so you offer the baby some at child care. The baby takes one bite at lunch.

Can you claim the sweet potatoes as part of a reimbursable lunch?

Yes

No

#### Answer

You notice that a baby in your care is developmentally ready for solid foods, and the parents agree. The parents tell you that their baby has had pureed sweet potatoes at home, so you offer the baby some at child care. The baby takes one bite at lunch.

Can you claim the sweet potatoes as part of a reimbursable lunch?

□ No

☑ Yes

#### Review

- Developmental Readiness
- Infant Meal Pattern
- Types of solid foods
- Tips for feeding a baby solid foods
- Choking Prevention
- Parent Provided Food Component



Questions

#### **More Team Nutrition Resources!**





Breastfed Babies Welcome Here! Ask us how we can support you.



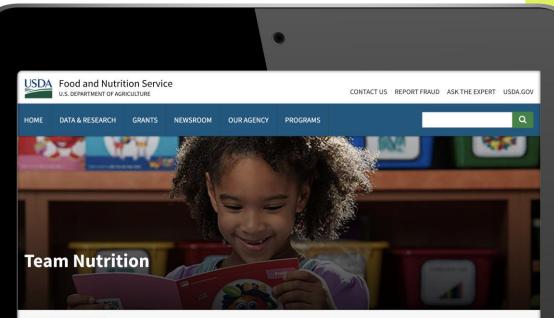
## **How To Order Print Copies**

Resource Order Form at **TeamNutrition.usda.gov**.

- FREE for those participating in a USDA's Child Nutrition Program, while supplies last.
- Sponsoring organizations and State agencies can also order in bulk by sending an email to:



TeamNutrition@usda.gov



PROGRAMS > TEAM NUTRITION

#### Fueling Children's Healthy Growth, Learning, and Play

Team Nutrition is an initiative of the USDA Food and Nutrition Service to support the child nutrition programs through training and technical assistance for foodservice, nutrition education for children and their caregivers, and school and community support for healthy eating and physical activity.

**About Team Nutrition** 



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(1) Mail: U.S. Department of Agriculture

Office of the Assistant Secretary for Civil Rights

1400 Independence Avenue, SW

Washington, D.C. 20250-9410;

- (2) Fax: (202) 690-7442; or
- (3) Email: program.intake@usda.gov.









TeamNutrition@usda.gov





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