EXPLORE DAIRY





NUTRITION PRIMER



The Nutrition Primer provides background information that educators may find useful before teaching a lesson.

LESSON 1



My Plate

The US Department of Agriculture's MyPlate icon is a tool for remembering that a variety of nutrient-rich food and beverage choices from five food groups make up a healthy eating pattern. Wholesome foods from the five food groups (Dairy, Vegetables, Fruits, Grains, and Protein) work together to provide nutrition that supports healthy bodies and brains.



Dairy Foods

Dairy foods include milk and foods made from milk like yogurt and cheese. The Dairy food group from MyPlate includes milk, yogurt, cheese, lactose-free milk, and fortified soy milk and yogurt because of their similar nutrient content and high calcium.



Optimal Growth & Development

Milk and dairy foods are recommended by health and nutrition experts because of their unique package of nutrients that work together to provide multiple health benefits. Nutrients in dairy include calcium, vitamin D, protein, potassium, magnesium, vitamin A, vitamin B12, riboflavin, and more.



Nutrition Security

Having consistent and equitable access to healthy, safe, culturally relevant, and affordable foods is essential to optimal health and well-being. Food insecurity is linked to the lack of access to nutrientrich foods and nutrition education. Together, these pieces provide knowledge, skills, and ability to make healthier food choices.



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TASTING ACTIVITY: THREE CHEERS FOR CHEESE!

VARIETIES

Hard Aged Cheeses

Parmigiano Reggiano, Gouda and other hard cheeses have typically been matured longer (and therefore contain less moisture). They're drier, crumbly and strong flavored.

Fresh Young Cheeses

Some require no aging: ricotta, cottage, chevre, queso fresco and the ever popular mozzarella.

Soft and SemiSoft Cheeses

Creamy Brie and Camembert are aged from the outside in, so they develop a thick rind.

Processed Cheeses

Made with traditional cheese and emulsifying salts, these long-lasting cheeses can be sold in pre-wrapped slices, partyready balls and more.

Medium Cheeses

Some of the most popular types are cheddar, Swiss and Gruyere. Swiss varieties get an extra bacterium in processing that gives them their "eyes."



- Cheese dates back to 4,000 years ago. Natural cheese is made from 4 basic ingredients: milk, salt, "good" bacteria, and rennet, which helps separate the liquid (whey) from the solids (curds).
- Cheese contains similar nutrients to milk, including protein (which is an essential building block for muscles) and calcium (which is an essential building block for bones and teeth).
- Fun fact: Research shows that cheese <u>helps prevent dental cavities</u>. How to cut every cheese.



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LESSON 2

- MILK. The most common type of milk is from dairy cows. Milk from animals like bison, goats, and sheep is also found in many parts of the world.
- MILK RECOMMENATIONS. By age 6, most children are not meeting the recommended daily servings from the Dairy food group. Consuming the recommended amount of dairy foods can help close the gap on some nutrient intakes, including nutrients of concern such as calcium, vitamin D, magnesium, and vitamin A.

















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LESSON 3

CALIFORNIA'S DIVERSE AGRICULTURE. California is the leading agricultural state in the United States, producing more than 400 commodities at farms in all 58 counties. California produces 50% of US-grown fruits, vegetables, and nuts, plus nearly 20% of the nation's supply of milk. California's leading agricultural commodity is milk and dairy foods.





















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TASTING ACTIVITY: MILK MASTERCLASS

- MILK delivers 13 essential nutrients and is recognized for its important role in building and maintaining strong bones. Research also highlights the role of milk, yogurt, and cheese in cognitive development, immunity, and digestive health.
- LACTOSE INTOLERANCE varies widely between regions and ethnic groups around the world. Acknowledge student food intolerances and allergies before tasting activities. Activities can be accommodated with low- and no-lactose options such as lactose-free milk and hard cheese like cheddar.
- FUNCTION OF FAT FROM FOOD. Fat is a nutrient. Fats are essential to give the body energy, support cell function, protect organs, and help keep the body warm. Fats also help the body absorb some nutrients. In children, fat is essential for brain development.

VARIETIES OF MILK				
Whole Milk	2% or 1% Milk	Fat-Free Milk	Organic Milk	Lactose-Free Milk
Creamy! Whole milk contains 3.5% fat by weight, the same amount found when it leaves the cow. Vitamin D is added to most milk produced in the U.S. to enhance the absorption of calcium.	(also known as reduced-fat or low-fat milk) Fat and calorie levels are reduced in these versions, but they have the same complete nutrient package as whole milk.	(also known as non-fat or skim milk) From slender cows. Kidding. Fat-free milk has no more than 0.2% milk fat. So it's the lowest in calories but, again, has just as many nutrients as whole milk.	From cows fed organic diets. The nutrient content is the same as conventional milk and offers the same health benefits. It's the process that makes this milk organic, not the product.	Lactose is the naturally occurring sugar in milk. Think you're lactose intolerant? Try lactose-free milk (real milk without the lactose) It tastes great and provides the same levels of calcium, potassium, vitamin D and more.

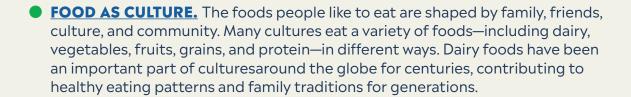


EXPLORE DAIRY





 UNIQUE EATING PATTERNS. Each person is unique so what they eat is unique too. People have different tastes, needs, cultures, and access to food. Food helps people understand themselves and connect with others through self and social awareness, stories, culture, and tradition.







• LACTOSE INTOLERANCE. The lactose found in dairy may be a concern and can lead to insightful conversations. Many people whohave lactose intolerance can still get 3 daily servings of dairy by choosing lactose-free milk, yogurt with live cultures, or cheese, which often contains lower lactose levels than milk.







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TASTING ACTIVITY: YOGURT, CULTURE ON A SPOON

- Yogurt is a cultured milk product, meaning it has been soured and thickened by lactic acidproducing cultures.
- Eating a variety of probiotic-rich dairy foods like yogurt as part of a healthy eating pattern
 can enhance the good bacteria in the gut, improve health, and reduce disease risk, while also
 providing important vitamins, minerals, and protein.
- Yogurt is naturally low-lactose thanks to the fermentation process. That makes yogurt a better option for people with lactose intolerance.
- Fun fact: When high-quality foods are eaten together, their nutritional benefits are enhanced. So when yogurt is eaten with fruit, vegetables, or whole grains, the benefits of the probiotics are enhanced!

VARIETIES OF YOGURT

SWISS-STYLE OR CUSTARD

Yogurt that has fruit or other flavorings stirred in. The result is a smooth and sweet treat that resembles custard.

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Tartness: MILD

BALKAN-STYLE OR SET-STYLE

The classic yogurt most familiar to Americans. It is made in individual cups, creating a thick texture.

Tartness:

MEDIUM to STRONG

EUROPEANSTYLE OR STIRRED

Made in large quantities and then stirred for a creamy texture.

Tartness: MILD to MEDIUM

INDIAN-STYLE OR DAHI

Full-fat yogurt traditionally made from water buffalo, but also available from dairy milk. The incubation process is longer, resulting in more sourness.

Tartness: STRONG

GREEK-STYLE OR STRAINED

Yogurt with ultra-thick texture from being strained three times, removing most of the liquid (called whey). This process also makes it higher in protein and lower in sugar.

Tartness: MEDIUM



