

DU Connagia

ey kids! I'm Gus, and yes, you guessed it, I'm a stalk of asparagus! You'll see me often as you work and play your way through this awesome agricultural adventure, so keep an eye out for me! Have you ever stopped to think about where your lunch comes from? Not the cafeteria or your refrigerator at home, but where it *really* comes from? Your apples and grapes? Your chicken nuggets and string cheese? Have you ever wondered where the clothes that you are wearing came from before they were bought at the store? What is your t-shirt made of? Your sweater? Your favorite pair of jeans? What about the paper you write on, the books you read, and the room you're sitting in?

All of these things are linked together, and linked to you through the amazing and diverse agriculture industry. Agriculture is the work of farmers and ranchers who are responsible for producing the supply of food, clothing and shelter that we need daily.

But it's much more than that! Agriculture is using some of the most progressive technology around to make sure agriculture products are getting to you fast, fresh, and safe! GPS devices and other computers, digital advances, biotechnology and cutting-edge communication methods all play a role in improving the quality and production of our food and fiber. Inside, you'll see tons of ways that agriculture is a part of your life and you'll learn about all of the amazing advances and opportunities that will inspire you to learn more about California agriculture. Have fun!

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Teachers

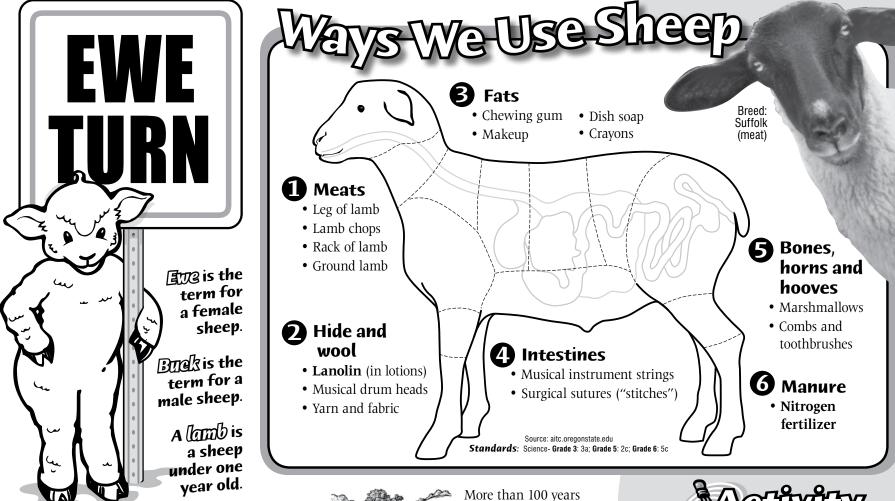
What is What's Growin' On?

For seven consecutive years, California Foundation for Agriculture in the Classroom has produced a 16-page, interactive student newspaper aimed at educating third through eighth grade students about the importance of agriculture. In this edition, we point out some ways that technology has helped improve the efficiency of farmers and ranchers, as well as numerous links that consumers have with agriculture on a daily basis, often without even realizing it!

Using What's Growin' On? in Your Classroom

Each edition of **What's Growin' On?** is developed by California educators and reviewed for accuracy by leading agriculture industry experts to provide relevant information about each subject while demonstrating agriculture's impact on each of us. Activities and lessons on the following pages are designed to meet CA Board of Education Content Standards. The fun, vibrant and educational information contained within **What's Growin' On?** will link you and your students to the world of farmers, ranchers and growers, and help you learn more about their practices through engaging activities. Your students will recognize that agriculture truly is a part of their lives in more ways

than they ever imagined!





Sheep Nutrition

Sheep nutrition is important because it influences the quality of sheep products we enjoy on a daily basis. Similar to humans, sheep need a carefully balanced diet to keep them healthy and productive.

A sheep farmer feeds 3 pounds of grain to each sheep each day. The feed contains 8% **crude protein**, 3.5% **crude fat**, and 13% **crude fiber**. Represent these numbers in percent, decimal and fraction form.

	Percent	Decimal	Fraction	
Crude Protein				
Crude Fat				
Crude Fiber				l
Standards: Math. Grade A: Statistics Analysis and Prohability (SAP) 1.0:				

Grade 5: NS 1.2; SAP 1.0; Grade 6: NS 1.2; SAP 2.0



ago, Basque immigrants from the Pyrenees Mountains of Spain and France came to the Western United States to herd sheep. Since then generations of sheepherders have been managing flocks of sheep through

the Tehachapi Mountains and the Mojave Desert outside Bakersfield, California. Basque sheepherders today use modern technology, such as cell phones and computers, but often travel alone with their flock throughout the summer months. Why do you think it is important for sheepherders to move their sheep and why do they keep them together in a flock?

Standards: History/Social Science- Grade 3: 3.5; Grade 4: 4.4; Grade 5: 5.2 Source: California Country Magazine "Basquing in Tradition"



Look through your local newspaper ads and find five products that come from sheep. Add up the costs. What would the total cost be if all sheep products were 12% off the original price?

Standards: Math- Grade 3: Number Sense (NS) 3.0; Grade 4: NS 1.0, 2.0; Grade 5: NS 1.0, 2.0; Grade 6: NS 1.0, 2.0; Grade 7: NS 1.0



Everyone knows the song "Mary Had a Little Lamb." Create your own sheep song or poem using the information on this page.

> Standards: ELA- Grade 5: Reading 3.1; Grade 8: Reading 3.1

How to stay "COOL"

COOL stands for Country of Origin Labeling. All fresh or frozen fruits and vegetables and select nuts and meat products must be labeled to indicate in which country they were produced. This makes it even easier to see if the items in your grocery cart are locally grown!

Source: www.fbnews.org



Where do you find your locally grown products? Draw a picture of your favorite place to buy farm-fresh food and flowers.

Standards: Visual Arts- Grade 3: 2.0; Grade 4: 2.0: Grade 5: 2.0: Grade 6: 2.0: Grade 7: 2.0

Add Variety to Your Diet

California grows nearly half of all fruits, nuts and vegetables produced in the United States. With over 400 different crops, we have an abundance of choices when it comes to buying California grown products.

Strengthen California's **Economy**

Buying local food keeps your money circulating in your own state and helps the businesses in your community.

Support California Family Farms

When you eat California

grown products you are buying from your California farmer neighbors.

Preserve California's Environment

Transportation vehicles emit gases that can decrease California air quality. By buying local products we often decrease transportation pollution that can improve the air we breathe.

lt's Easy!

Buy California Grown Products

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As Californians, we have many options for finding California grown products. Locally grown items can be found in every department of your grocery store. Purchase your food and flowers at **farmers' markets**, **farm stands** or through **community supported agriculture (CSA)** programs. You can also grow your own food and flowers through a school or home garden.

Source: guide.buylocalca.org/



Before your next trip to the grocery store download a scavenger hunt from *kids.cfaitc.org/wgo7/cagrown* to see how many locally grown products you can find!

echachec

What does "in season" mean?

Eating with the seasons means you are buying and consuming fruits, nuts, and vegetables soon after they are harvested. **Seasonal** products are often:

- at peak taste
- plentiful
- less expensive

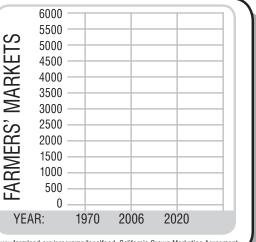
To find out if you are eating food that is in season, visit *www.cfaitc.org/seasonal*



The number of new jobs created throughout the state if Californians bought 10% more California grown products. The number of farmers' markets in our nation in 1970.

The number of farmers' markets in our nation in 2006.

Use the information about the increasing number of farmers' markets to create a line graph. Draw a trend line. If this **trend** continues, how many farmers' markets will there be in 2020?



Standards: Mathematics- Grade 4: Statistics, Data Analysis, and Probability (SDA) 1.0; Mathematical Reasoning (MR) 3.0; Grade 5: SDA 1.0; MR 3.0; Grade 6: SDA 1.0; MR 3.0 Source: www.farmland.org/programs/localfood, California Grown Marketing Agreement

4

What is an invasive species?

M BUH

An invasive species is an unwanted plant, animal, disease or insect that has been intentionally or accidentally brought from its original (**native**) home into California. These invasive species compete with **beneficial** ones for food and can cause major damage to crops.

How do invasive pests affect agriculture?

In California, losses to unwanted pests equal \$3 billion annually. Pests can destroy crops by eating the fruit, damaging the roots of plants, burrowing into trees, feeding on leaves, spreading disease and more. Unwanted pests result in higher food prices, increased **pesticide** use, and damage to California's native plants and animals.

Standards: Science- Grade 3: 3; Grade 4: 2

Africa

ACEINIG

Researchers commonly trap insects to monitor areas for invasive pests.

What would you use to trap an insect? How would you attract an insect to your trap?

Standards: Science- Grade 3: 3; Grade 4: 3

Australia

The glassy-winged

sharpshooter is a native of

Mexico and the *Southeastern*

United States. It can damage

grapes, citrus, almonds,

cherries and plums.

Draw a line connecting the invasive insect to its country or region of origin

Driginally from Sauth

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Originally from *South America, red imported fire ants* can damage nursery products, trees and vegetable crops. They make harvesting difficult due to painful stings to harvesters.



The **light brown apple moth** threatens more than 2,000 plants including many California natives. This pest originated in *Australia*.

Standards: History/Social Science- Grade 3: 3.1; Grade 4: 4.1 Source: CA Department of Food and Agriculture (www.cdfa.ca.gov), California Country Magazine "Don't Pack a Pest"

Work with a partner to define the following vocabulary words on a separate piece of paper.

Entomologist Invasive species Insect Pest

Native plant Ornamental plant Exotic insect Beneficial insect

Standards: ELA- Grade 3: Reading 1.0; Grade 4: Reading 1.0; Grade 5: Reading 1.0; Grade 6: Reading 1.4; Grade 7: Reading 1.3; Grade 8: Reading 1.3

The **Mediterranean fruit fly** is native to *Africa* and represents a major threat to California's agriculture. Commonly known as the "medfly," it has been

recorded infesting more than 300

Asia

cultivated and wild fruits.

From the *Caribbean,* the *diaprepes root weevil* eats citrus and other **ornamental** plants.

The **Mexican fruit fly**, from *Mexico*, attacks more than forty kinds of fruit. It commonly targets citrus trees.

Use an agriculture publication, such as Ag Alert (*www.agalert.com*) or your local newspaper, to find

articles about invasive species. Use a separate sheet of paper and write a summary paragraph explaining how invasive species could affect you.

> Standards: ELA- Grade 3: Writing 1.0; Reading 1.0; Grade 4: Writing 1.0, 2.4; Reading 2.0; Grade 5: Writing 1.0; Reading 2.0; Grade 6: Reading 2.0; Grade 7: Writing 2.5; Reading 2.0

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Where Is Your Green From?

After the dust bowl of the 1930s, thousands of farmers from Oklahoma, Kansas, Texas and other dry states migrated to California. With a strong background in farming, migrant farmers took residence in the Salinas Valley, a rich agricultural area on California's central coast, to farm the fertile land. The Salinas Valley and Monterey area are still known today as the "Salad Bowl" of the world. Many of California's leafy greens are produced in this region.

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Why do leafy greens thrive in the Salinas Valley and Monterey? Use online resources to investigate why the **climate** conditions in the "Salad Bowl" region of California make it ideal for growing salad essentials. Based on your findings, what can you conclude about the optimum growing conditions for leafy greens?

Benefits of Lating Green

There are numerous nutritional benefits of eating fresh, green, leafy produce! Circle any of the greens vou have tasted before.

Folate	Cooked spinach, Chinese cabbage, leaf lettuce, romaine lettuce	
Potassium	Beet greens, spinach, loose leaf lettuce, chard, parsley, endive	
Vitamin A	Turnip greens, mustard greens, kale, collard greens, Chinese cabbage, leaf lettuce, romaine lettuce, spinach	
Vitamin C	Kale, cabbage, collard greens, mustard greens, red cabbage, spinach	
Iron	Spinach, chard, collard greens, parsley	
Fiber	Spinach, collard greens, parsley	

www.fruitsandveggiesmatter.gov, www.dolesuperkids.com

Using pictures from your newspaper or grocery ads, create a collage of leafy greens you can incorporate into your diet. Label each leafy green. Standards: Visual Arts- Grade 3: 2.4; Grade 5: 2.4; Grade 6: 2.4

Spinech Young leaves are incredibly nutrient packed.

Endive Crunchy leaves are pale yellow and commonly found in appetizers.

Watercress Spicy, robust leaves are perfect for sandwiches.

Mizzunas Chinese cabbane Has a tangy flavor and Young leaves have fringed a crunchy, leaves. celery-like texture.

Redicchio

Dark red leaves with white veins and a bittersweet taste.

MEAT & BEANS

MyPyramid TEPŠ TO Á HEALTHIER YOU MyPyramid.gov VEGETABLES

FRUITS

Daily Food Log

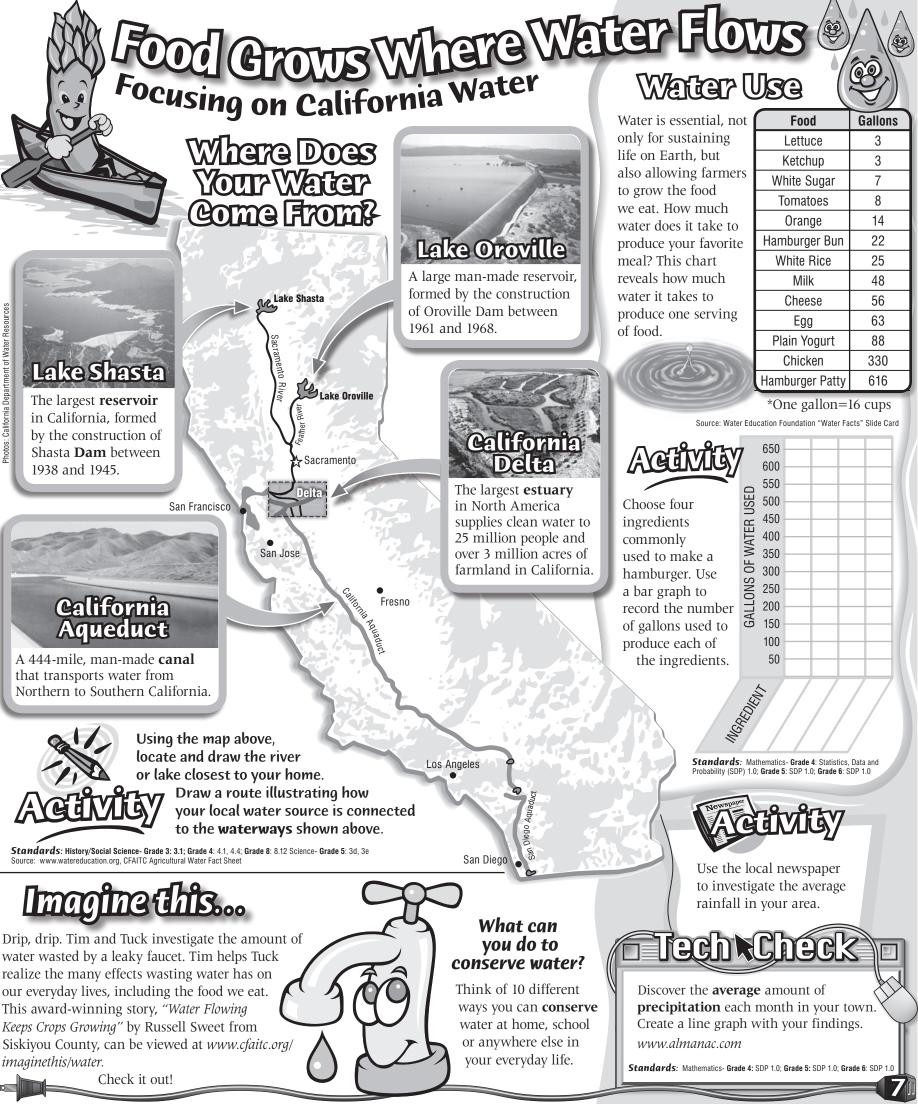
Record and analyze your food consumption for one day. Place a star next to good food choices you make. This may include leafy greens and other vegetables.

Create a plan to replace unhealthy foods with healthier choices using the information from this page and the food pyramid above.

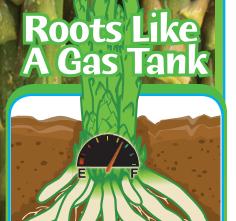
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Asparagus...



Did you know asparagus roots function like the gas tank in a car? The plant must have enough "gas in the tank" to produce asparagus spears in the spring. So how does it "fuel up?" In the summer and fall, harvesting stops, and the unharvested spears grow into a fern. Through the process of **photosynthesis**, the asparagus plant uses its leaves to collect and store carbohydrates in the roots. Carbohydrates are an essential form of energy for an asparagus plant, similar to the gas you put in your car.

Standards: Science- Grade 3: 1a, 3a, 3b; Grade 4: 2a; Grade 5: 2a, 2c, 2f, 2g; Grade 6: 5a; Grade 7: 5a, 5b Source: California Asparagus Commission (www.calasparagus.com)

Tech Check

Asparagus is one of the few perennial vegetables, which means it does not die after one season of growth. What other vegetables are perennials? Search for this information online.

8

Activity

Look up the word "photosynthesis in the dictionary. Write the definition, its pronunciation and identify the part of speech. Use the word correctly in a sentence. In the space below, write the chemical equation for photosynthesis and draw a picture illustrating the process.

(Hint: The ingredients are water and carbon dioxide, the product is sugar and oxygen.)

> **Standards:** Science- Grade 3: 1a, 3a, 3b; Grade 4: 2a; Grade 5: 2e, 2f, 2g; Grade 6: 5a;

Grade 7: 5a 5h

Spears

Roots

Standards: ELA- Grade 3: Reading 1.0; Grade 4: Reading 1.0; Grade 5: Reading 1.0; Grade 6: Reading 1.0; Grade 7: Reading 1.0; Grade 8: Reading 1.0

> Roots are full of carbohydrates. Spears begin to be harvested

PRING

to be harveste and are sent to market.



Plant becomes **dormant**, when soil temperature drops below 50°F.



Roots depleted of carbohydrates.

Ferns grow and transfer carbohydrates to roots below.

Roots begin to fill their "gas tank" with carbohydrates through the process of photosynthesis.

> Standards: Science- Grade 3: 3; Grade 4: 2; Grade 5: 2; Grade 6: 5, 6a; Grade 7: 5a, 5b, 5f; Grade 8: 6c

that's the spear-it!

Bigger Better

When you are shopping for asparagus, you will find the product in four different sizes: standard, large, extra large and jumbo. According to the California Asparagus Commission, extra large and jumbo asparagus is usually more tender than other sizes.

Jumbo: Not less than 13/16 of an inch in diameter.

Extra Large: Not less than 10/16 of an inch in diameter.

Large: Not less than 7/16 of an inch in diameter.

Asparagus is measured one inch above the bottom of the stem. Determine the circumference at this point for each size of asparagus.

Not less than 5/16 of an inch in diameter.

Standard:

Source: California Asparagus Commission

*Actual size shown. standards: Mathematics- Grade 3: Measurement and Geometry (M&G) 1.1; Grade 4: M&G 3.2; Grade 5: M&G 1.4; Grade 6: M&G 1.1, 1.2; Grade 7: M&G 1.2

Fresh California asparagus spears bring an extraordinary touch of style to everyone's favorite food - pizza.

NOU know

Asparagus folklore credits the delicious green spears for curing a variety of ailments, including toothaches!

California produces 75% of all asparagus that is grown, nationwide.



- Unbaked pizza crust (12-inches) 1
- 2/3 cup Red bell peppers, cut into
- ¹/₂ inch squares
- ¹/₂ cup Onion, chopped
- ¹/₂ cup Olives, chopped
- 12 oz. Fresh California asparagus, trimmed, then blanched
- Mozzarella cheese $\frac{3}{4}$ cup
- ³/₄ cup Crumbled feta cheese

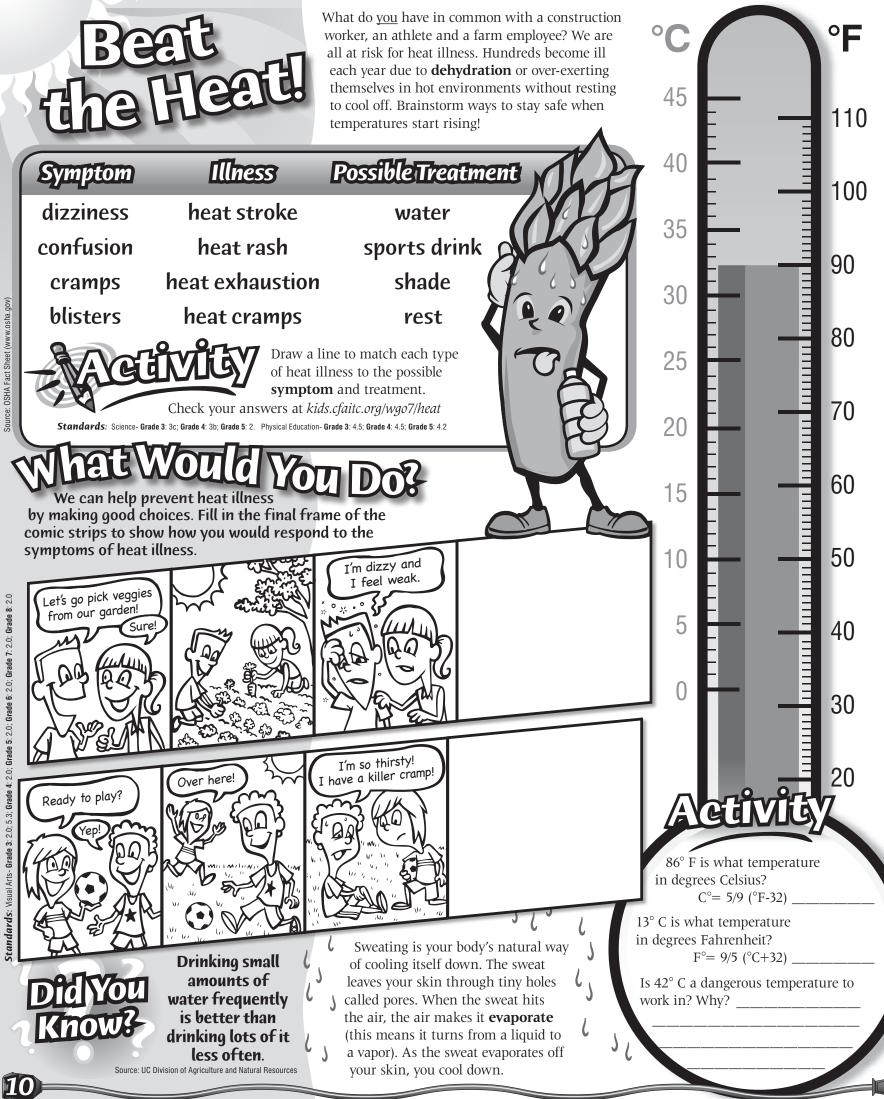
On crust, layer red bell pepper, onion and olives. Boil asparagus for 3-5 minutes to blanch. Arrange asparagus spears, tip towards edge, in a pinwheel fashion over vegetables. Evenly sprinkle cheeses. Bake at 500°F until crust and cheese are lightly browned, about 10 minutes. Cut into eight wedges.

Source: California Asparagus Commission



Practice writing a letter to the editor persuading Californians to buy California grown asparagus. What are the benefits? How will a growing California asparagus industry influence our economy and lives?

Standards: ELA- Grade 3: Writing 2.3; Writing and Oral English Language Conventions (WOL) 1.0; Grade 4: WOL 1.0; Grade 5: Writing 2.4; WOL 1.0; Grade 6: Writing 2.5; WOL 1.0; Grade 7: Writing 2.4; WOL 1.0; Grade 8: Writing 2.4; WOL 1.0



Standards: Mathematics- Grade 6: Algebra and Function (AF) 1.0; Grade 7: AF 1.0; Measurement and Geometry 1.1



DidYouKnow

The wishbone of a turkey is actually the turkey's collarbone. Many American families hold a post-Thanksgiving competition where the person who breaks off the largest part of the wishbone will have their greatest wish come true.

Turkeys have a rich history in a variety of cultures and countries around the world. Initially called "guinea fowl" in the Americas, early explorers took turkeys to other parts of the world where they gained popularity as a healthy and delicious food.

- 1492 Turkeys become **domesticated** (tamed) in Northern Mexico.
- 1519 Domesticated turkeys are taken from the Americas to Spain by explorers such as Christopher Columbus and Hernando Cortez.
- 1524 Turkeys arrive in England from Spain.
- 1530 English merchants introduce turkeys to the Eastern Mediterranean, or Turkish, area. This is possibly where the name "turkey" originated.

Turkey



- 2. Which president made Thanksgiving a national holiday?a. George Washingtonb. Abraham Lincoln
- 3. Until 1935, turkeys were raised for their _____.a. white meat
 - b. colorful feathers
 - **4**. An average turkey farmer raises birds each year.
 - a. 50,000
 - b. 500
 - 5. In the United States Thanksgiving is on the _____ Thursday in November.a. fourth
 - b. third
- Answers: 1) b, 2) b, 3) b, 4) a, 5) a

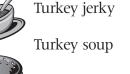
Standards: History/Social Science- **Grade 3**: 3.3; **Grade 5**: 5.4, 5.5, 5.8 Source: California Poultry Federation, "Gobble It Up" Teacher Resource

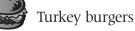
Turkey is not just for Thanksgiving! There are many turkey products we can eat every day. Circle the turkey products you have tasted before. Place a star next to the turkey products you would like to try in the future.



Drumsticks







to find their various

This may include size,

weight, physical attributes,

names of males, females

and young, etc. Check

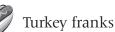
your answers online at

kids.cfaitc.org/wgo7/turkey

Standards: Mathematics- Grade 3: Mathematical Reasoning (MR) 1.1; Grade 4: MR 1.1; Grade 5: MR 1.1;

Grade 6: MR 1.1; Grade 7: MR 1.1 Science- Grade 3: 3a

characteristics.



Standards: Science- Grade 3: 3a; Grade 6: 5c Source: California Poultry Federation, "Gobble It Up" Teacher Resource

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- Ground is plowed, harrowed and graded; seeds are planted.
- Netting is placed to secure the soil.
- Water is applied every five days.
- After seven months the sod (soil base, netting and grass) is harvested and rolled.
 - Sod is laid out on the ground to create a beautiful turf for recreation or landscaping purposes. This product can be used for everything from a professional football field to your own backyard.

Label each of the images 1-5 based on the chronological order of the production. Standards: Mathematics-

ing the Green

Grade 3: Mathematical Reasoning (MR) 1.1; Grade 4: MR 1.1; Grade 5 MR 1.1; Grade 6: MR 1.1

Grassy Green Math

Sod Specifications: Roll size: $24'' \ge 60'' = 10$ sq. ft. Roll weight: 40-50 lbs.

Your yard needs a new lawn. You decide to order sod from a local sod producer.

20 feet

Your vard measures 20 feet by 120 feet.

Determine the square area (A = l x w) of your yard.

How many rolls of sod will you need to buy?

What will the total cost be if the sod sells for \$0.30 per square foot?

Approximately how much will the sod weigh when it is delivered to your home?

Standards: Mathematics- Grade 3: Measurement and Geometry (M&G) 1.2; Grade 4: M&G 1.1; Grade 5: M&G 1.1 Source: www.deltabluegrass.com

AT&T Baseball Park, home of the San Francisco Giants, has its own custom blend of sod that cannot be purchased by the public.

Many professional athletes prefer sod to artificial turf for its ability to reduce injury by natural cushioning.

Source: Zuckerman Heritage Farms, "Sod King had Dreams of Fields" California Country Magazine



Use the sports section of your newspaper to select a soccer, football or baseball team playing today. What field are they playing on? Research the location and determine if that field uses natural turf.

TURPS "Roll" in the Environment

Turf generates oxygen for the atmosphere and helps clean the air of pollutant gases. Turf also controls soil erosion, reduces dust, controls land temperatures, reduces noise and replenishes the ground water. Science- Grade 5: 2f, 2g

What's In A Name?

"Sod" and "Turf" are words often used interchangeably. Sod actually refers to the grass before it is installed on an area of land. After installation, it officially becomes turf.

120 feet



"Apple-idioms"

An idiom is a saying that

translated literally. For example,

ready to listen, not that they have

An apple a day keeps the

"All ears!" means someone is

more than one set of ears!

Apple Idioms:

cambridge.org

doctor away.

The Big Apple

The apple of my eye

What other apple idioms have you heard? Create

your own apple idiom! For

more idioms, visit *dictionary*.

Standards: ELA- Grade 7: Reading 1.1; Written and Oral English

s 1.0; Grade 8: Literary Response 3.6

6.

Source: US Apple Association "Apples: A Class Act"

does not make sense if

delicious smoothie

following ingredients.

by blending the

INGREDIENTS

2 cups applesauce

1 cup 100% apple juice

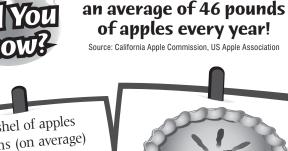
Johnny Appleseed

John Chapman was born in Leominster, Massachusetts on September 26, 1774. In his early twenties, he migrated to Pennsylvania where he worked as a traveling preacher and apple

nurseryman. He eventually moved west, planting apple trees for nearly 50 years. He became known as the "Appleseed Man" and later as "Johnny Appleseed." He died in 1845.

> Standards: History/Social Science- Grade 5: 5.4 Source: US Apple Association "Johnny Appleseed: a Pioneer and Legend"

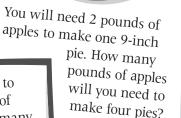




American consumers eat

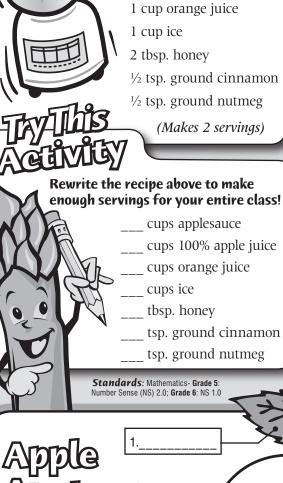
A bushel of apples weighs (on average) 45.5 pounds. If you have 182 pounds of apples, how many bushels do you have?

> It takes 36 apples to make one gallon of apple juice. How many apples will you need to make one cup of juice? Five gallons of juice?



Standards: Mathematics-Grade 5: NS 2.0, Mathematical Reasoning (MR) 1.0; Grade 6: NS 1.0, 2.0; Measurement and Geometry (M&G) 1.0; Grade 7: NS 1.2; M&G 1.1 Source: US Apple Association "Apples: A Class Act", UDSA (www.nass.usda.gov)

shel of Math



Using the word bank, label

the parts of an apple.

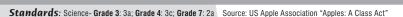
3.

Word Bank

leaves stem flesh

core seeds

skin (peel)



A Unique Environment

Edible mushrooms grow indoors in temperature and humidity-controlled trays or beds. Many farmers use computers to help monitor and regulate these growing conditions. The beds in which mushrooms grow contain a rich mixture of organic compost such as straw, hay, corncobs and water. The compost is **pasteurized** to destroy any germs or bacteria that might harm mushroom development. Used or "spent" mushroom compost is recycled and used as fertilizer for some crops and home gardens. Standards: Science-Grade 4: 2; Grade 5: 2; Grade 6: 5e Source: www.mushroomcouncil.com, www.americanmushroom.org

Mushroom Varieties

Mushrooms come in a variety of shapes, colors and sizes! There are more than 250 different varieties of edible mushrooms. Below are six common varieties.

Standards: Science- Grade 4: 4c; Grade 6: 5e Source: Mushroom Council

White Button

The most popular mushroom, white buttons represent about 90 percent of mushrooms consumed in the United States.

Try them sliced and sautéed on pizza or in a quesadilla.

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mong

Also known as baby 'bellas, criminis are similar in appearance to white buttons, but are more tan in color.

Their hearty taste makes them an excellent addition to beef and vegetable dishes.

Portabella

Portabellas have tan or brown caps and measure up to 6 inches in diameter.

Grill and serve them as "burgers" on toasted buns.

Enoki

With a crunchy texture, enoki have small caps and long, spindly stems.

Try them in salads and sandwiches.



Oyster mushrooms can be gray, pale yellow or even blue!

Try them over pasta with steak and red peppers.



Mushrooms are neither plant nor animal, but have their own biological kingdom, **fungus**.

> Standards: Science- Grade 4 2c; Grade 6: 5a, 5b, 5c;



Maîtake

Maitake are fanshaped, without caps.

Use in side dishes and soups for a richer taste.

Be careful what you eat! Some mushrooms can be poisonous. Only eat mushrooms bought at a grocery store or other produce market.



An acrostic is a poem in which each letter of a word spells out another message relating to the word. Complete this acrostic with information you have learned about mushrooms.

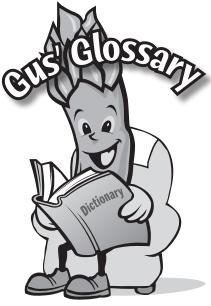
Fabulous way to add flavor to everything from sandwiches to soups!

U	 	
N		
G		
U		
S		

Standards: ELA- Grade 3; Written and Oral English Language Conventions (WOC) 1.0; Grade 4: Writing 2.4; WOC 1.0; Grade 5: WOC 1.0; Grade 6: WOC 1.0; Grade 7: Reading 1.1; WOC 1.0; Grade 8: Reading 3.1

Choose one mushroom variety and search for a related recipe at *www.mushroominfo.com*. Try this recipe with your family this week!





Average – The value obtained by dividing the sum of a set of quantities by the number of quantities in the set.

Beneficial – Producing or promoting a favorable result; advantageous.

Canal – An artificial waterway or artificially improved river used for travel, shipping or irrigation.

Carbohydrates – Any of a group of organic compounds that includes sugars, starches and celluloses and serves as a major energy source in the diet of animals.

Climate – The meteorological conditions, including temperature, precipitation and wind, that characteristically prevail in a particular region.

Community Supported Agriculture (CSA) – A

partnership between a farm and a community of supporters that provides a direct link between the production and consumption of food.

Conserve – To use carefully or sparingly, avoiding waste.

Crude fat – Any of a large number of oily compounds that are widely found in plant and



Choose five words from the glossary and write the words on the numbered $_3$. lines. Find each word in the dictionary and write the guide words for that page in the area provided.

animal tissues and serve mainly as a reserve source of energy.

Crude fiber – The indigestible portion of plant foods that move food through the digestive system, absorbing water and easing defecation.

Crude protein – A fundamental component of all living cells. Necessary for growth and development of muscle.

Dam – A barrier constructed across a waterway to control the flow or raise the level of water.

Dehydration - Excessive loss of water from the body from illness or fluid deprivation.

Domesticated – To train or adapt an animal or plant to live in a human environment and be of use to humans.

Dormant - A condition of biological rest or inactivity characterized by cessation of growth or development.

Economy – The system of production, distribution, and consumption of goods and services.

Entomologist – A person who studies the classification, life cycle and habits of insects and related life forms

Estuary – The part of the wide lower course of a river where its current is met by the tides.

Evaporate – To convert or change into a vapor.

Farm stand – A temporary or permanent structure used for the display and sale of agricultural products.

Farmers' markets – A location where farmers sell their agriculture products directly to the public.

Fungus – Any of numerous eukaryotic organisms of the kingdom Fungi, which lack chlorophyll and vascular tissue.

Glossary Words

1.

2._

4.

5.

Ground water – Water beneath the earth's surface, often between saturated soil and rock, that supplies wells and springs.

Humidity – Dampness, especially of the air.

Lanolin – A fatty substance obtained from wool and used in soaps, cosmetics, and ointments.

Native - Originating, growing, or produced in a certain place or region; indigenous.

Origin – The point at which something comes into existence or from which it is derived.

Ornamental – Plants typically used for flower gardens, house plants, landscaping or cut flowers.

Pasteurized - The process of heating liquids for the purpose of destroying bacteria, protozoa, molds, and yeasts.

Pesticide – A chemical used to kill pests, especially insects.

Photosynthesis - The process in green plants and certain other organisms by which carbohydrates are synthesized from carbon dioxide and water using light as an energy source.

Precipitation – Any form of water, such as rain, snow, sleet, or hail, that falls to the earth's surface.

Reservoir – A natural or artificial pond or lake used for the storage and regula

Seasonal depends of by the season of

Sympton of disorder or disease, especially when experienced by an individual as a change from normal function, sensation, or appearance.

Trend – The general direction in which something tends to move.

Waterways – A navigable body of water, such as a river, channel, or canal.

Guide Words

ation of water.
l – Applies to wha
on or is controlled
the year.
n – An indication



American Farm Bureau Federation www.fb.org

> American Farmland Trust www.farmland.org

California Apple Commission www.calapple.org

California Asparagus Commission www.calasparagus.com

California Department of Food and Agriculture www.cdfa.ca.gov

California Farm Bureau Federation www.cfbf.com

California Poultry Federation www.cpif.org

Colorado State University Extension www.ext.colostate.edu

> Dole SuperKids www.dolesuperkids.com

Mushroom Council www.mushroomcouncil.com

Oregon State Agriculture in the Classroom aitc.oregonstate.edu

> **OSHA** www.osha.gov

Produce for Better Health Foundation www.fruitsandveggiesmorematters.org

> Superior Farms www.superiorfarms.com

UC Division of Agriculture and Natural Resources www.ucanr.org

> University of Illinois Extension www.urbanext.uiuc.edu

> > US Apple Association www.usapple.org

Water Education Foundation www.watereducation.org

Zuckerman Heritage Farms www.deltabluegrass.com

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