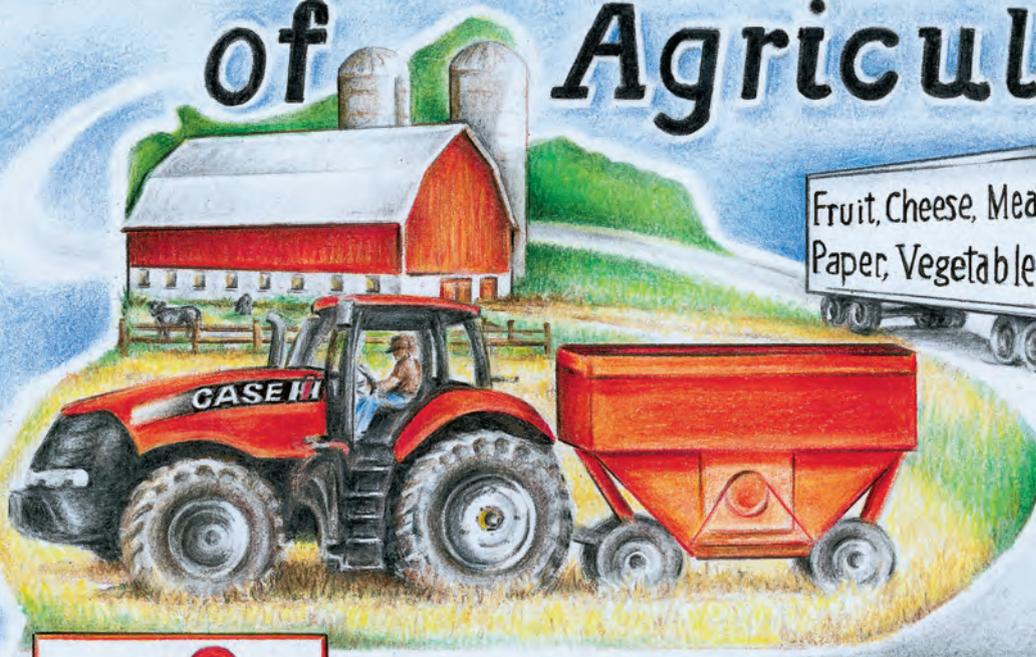


The ABC's and 123's of Agriculture



Home Town Grocery Store



This Book Belongs to: _____

THIS ACTIVITY BOOK IS SPONSORED BY:

Badgerland Financial

ATTN: Laura Herschleb
1430 North Ridge Rd.
Prairie du Sac, WI 53578
www.badgerlandfinancial.com



Case IH North America

ATTN: Scott Rasch, Corporate Events & Customer Initiatives
621 State Street
Racine, WI 53402
www.caseih.com



Wisconsin Milk Marketing Board

ATTN: Laura Wilford, Director of Wisconsin Dairy Council
175 Patrick Blvd., Suite 200
Brookfield, WI 53045
www.wisconsinmilkmarketingboard.com



PRODUCED AND DISTRIBUTED BY:

Wisconsin Agribusiness Foundation

Ferron Havens, President/CEO
PO Box 46100, Madison, WI 53744-6100
Phone: 877-947-2474
Email: fhavenswac@mhtc.net
www.wisagri.com

SPECIAL THANKS TO:

Artist, MaryAnn Pahnke, who designed and sketched the booklet cover.

Agricultural Instructor – New Auburn High School, Brenda Scheil, who developed many of the activity and project pages.

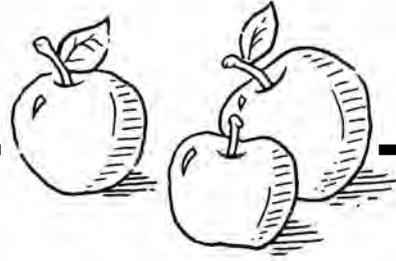
This Edition updated and printed Fall 2014

Original edition developed and authored by Anna M. Maenner
Cover artwork by MaryAnn Pahnke
Recent artwork and illustrations by Brenda Scheil and Angela Voight
Printing and binding by Ripon Printers

The Wisconsin Agribusiness Foundation is organized as a 501(c)(3) non-profit, educational corporation. Contributions are tax-deductible as allowed by IRS Code.



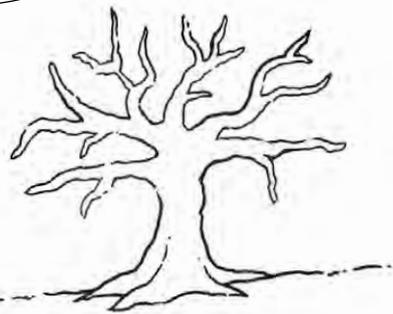
Apples



Apples are a fruit grown in many parts of Wisconsin. Some are red, some are green and some are yellow. Apples help keep our bodies healthy, help clean our teeth and taste delicious.

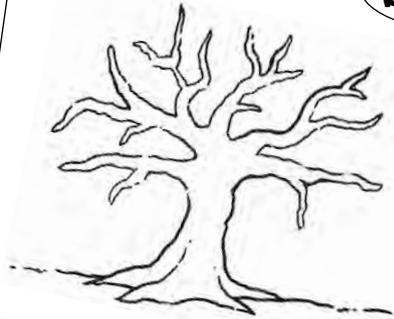
Draw the apple tree through the seasons.

Spring



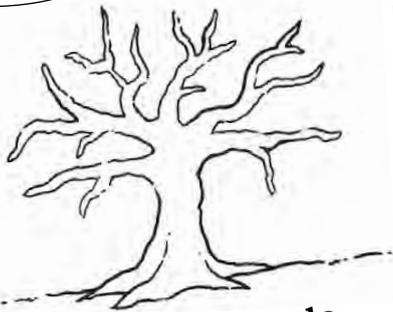
In spring, the apple tree blossoms.

Summer



In summer, the fruit grows on the apple tree.

Winter



In winter, the apple tree is bare.

Fall



In fall, the apples are ready to eat.

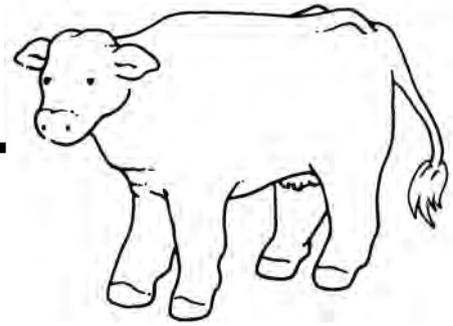


An apple floats because 25% of it is air.



B

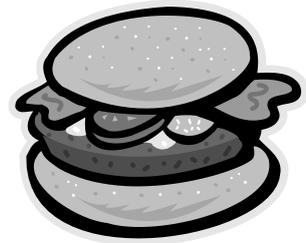
eeef



Hamburger and steak are beef. Beef comes from cattle.

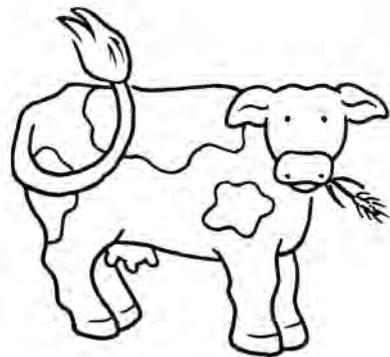
Beef cattle are raised for beef. Dairy cattle are raised for milk. Young cattle are called calves. Cattle that are mothers are called cows, fathers are called bulls.

Beef comes from _____ .



There are _____ and _____ cattle.

Young cattle are called _____ .



Cows are _____ ,

_____ are fathers.

Texas Longhorn beef cattle have very long horns. From one tip to the other it can measure as much as seven feet!

C herries and...

Many different products are grown in the state of Wisconsin. Find and color the ones that begin with the letter **C**.



cherries

carrots

chickens

cranberries

cucumbers

corn

cows

cheese

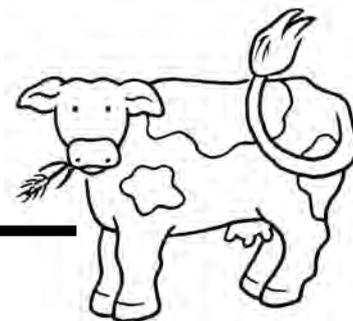
christmas trees



It takes 44 cherries to make one pound.



Dairy



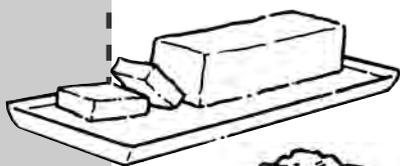
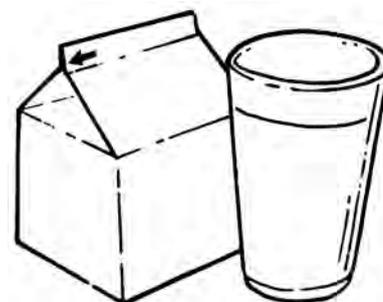
_____ cows produce milk.

rayDi

Drinking _____ makes

ikml

your bones strong and healthy.



_____ and _____ are

utBtre

eic recma

made from milk.

Eating _____

gtuyor

can help your body feel better after you have been sick.



When cheese is made, _____
is left over.

hyew

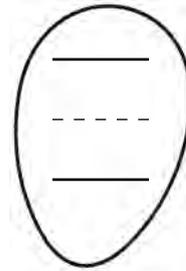
Dairy cows can smell up to six miles away.

Eggs

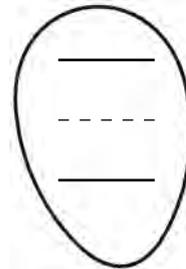
Wisconsin chickens lay **896,000,000** eggs each year.

Solve these problems about eggs.

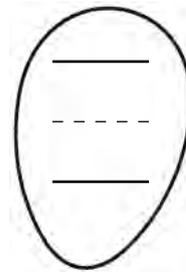
1. Most hens lay 5 eggs a week.
How many eggs would 4 hens lay in a week?



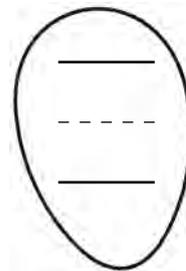
2. If a hen lays only 4 eggs each week, how many weeks would it take her to lay a dozen?



3. When we gathered eggs from the hen house, we found 6 white eggs and 9 brown eggs. How many more eggs were brown?



4. I gathered 12 eggs but I broke 2 of them. How many eggs do I have now?



One egg has 13 important vitamins and minerals.



Flowers

In Wisconsin, we grow many types of flowers.



Sunflowers move throughout the day. They follow the sun from the east to the west.



Color each type of flower a different color.

How many flowers of each kind are growing in the garden? Color in the chart.

8					
7					
6					
5					
4					
3					
2					
1					



Sunflower



Daisy



Peonies



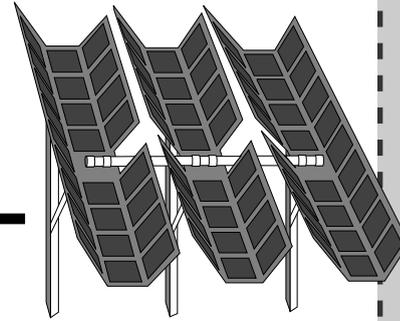
Daylily



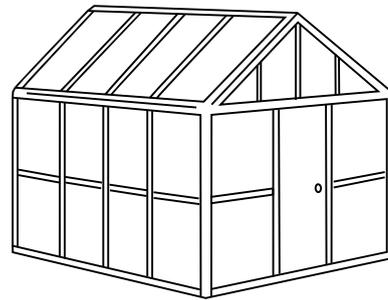
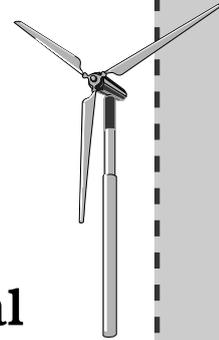
Pansy

Kind of Flower

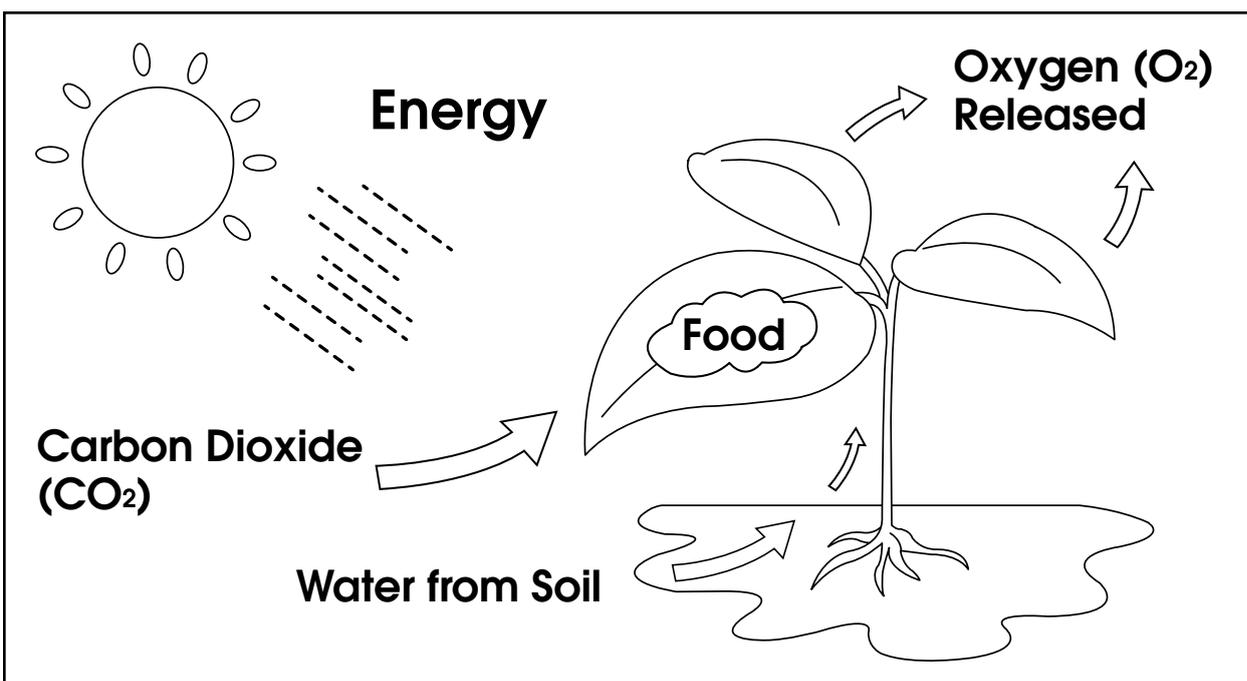
reen



Green energy helps conserve natural resources. A solar panel is warmed by the sun giving energy to help light buildings. A wind turbine helps catch wind, building up energy, to help light buildings. A special building called a greenhouse helps grow plants. Plants are able to be green in color because of photosynthesis.



Color in the different parts of photosynthesis:



There are 10,000 homes in the United States powered completely by solar energy (energy from the sun).

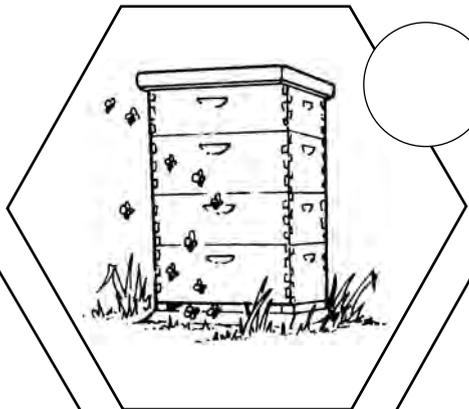
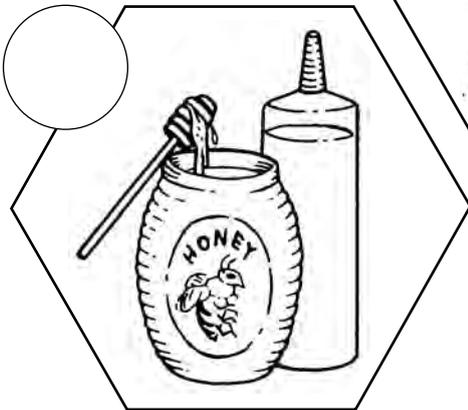


Honey

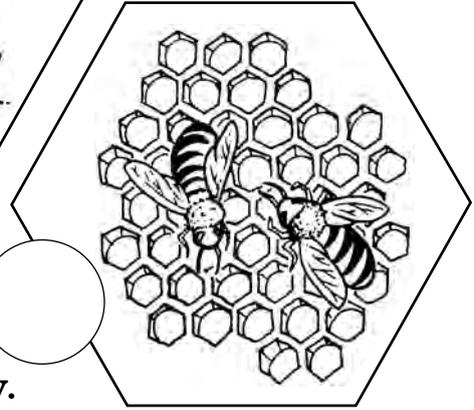
Bees make honey. They fly from flower to flower and gather up nectar. Back at the hive, bees use nectar to make honey. The farmer collects the honey.

Number the pictures in the order that they happen.

You can have honey to eat!



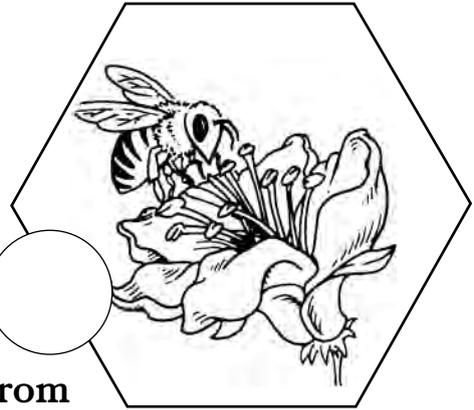
Bees take the nectar back to their hive.



Bees use nectar to make honey.



Farmers collect the honey.



Bees gather nectar from flowers and crops.



Honey does not spoil; it is often called "nature's most perfect food."



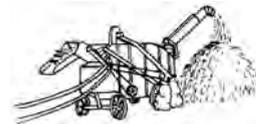
Inventions

Many inventions have helped agriculture change and grow.

1775 - James Watt invented the first steam engine.



1786 - The Thresher separates grain from stalks.



1837 - The steel plow breaks apart soil so it can be planted.



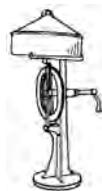
1890 - The milk tester tests how much butterfat is in milk.

1930 - Tractors with rubber-tires were widely used.

1960 - The first skidloader was invented and farmers began to use them.



1978 - The first large square baler goes into production.



1982 - The first genetically modified organism (GMO) was invented. It was a tomato plant. Today farmers plant many GMO crops to help feed the world.



1994 - Farmers begin using GPS systems.



.....

The oldest invention on this page is the steam engine. What year was it invented?

Which invention do you think is the most important?

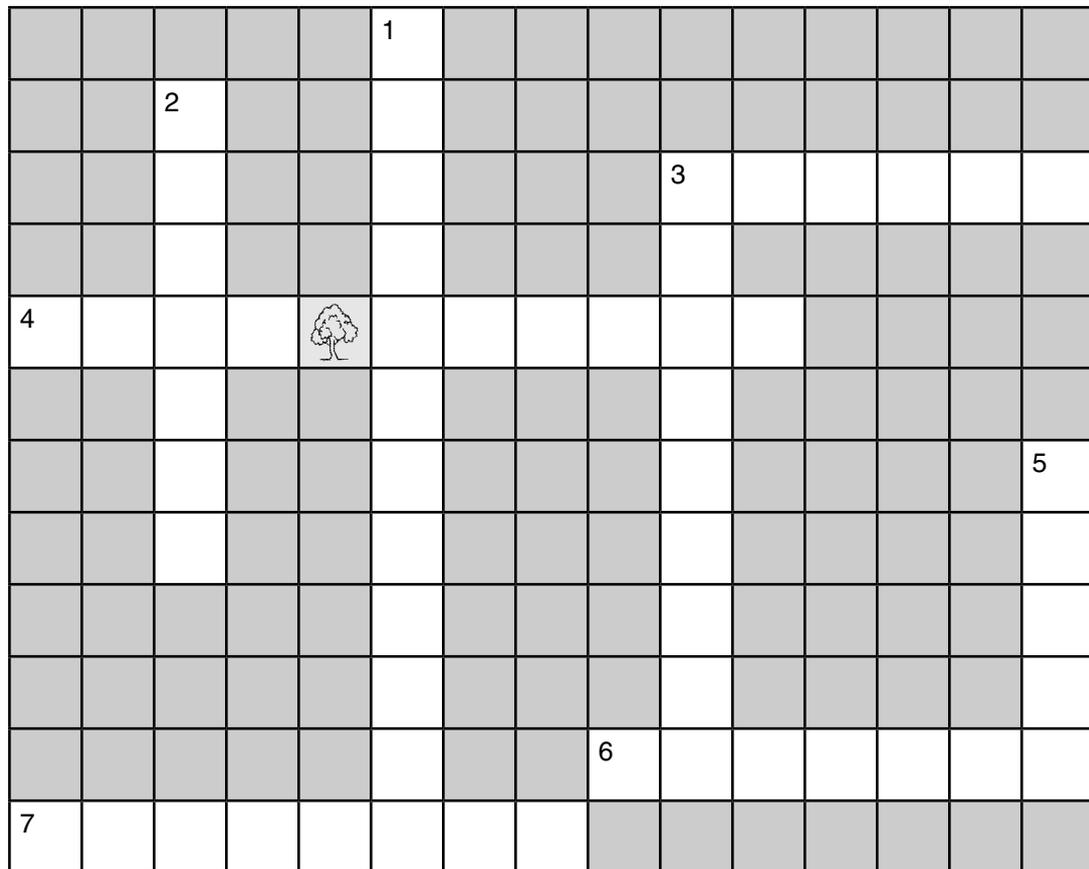


Duct tape was invented in 1942.



Jobs

Today 20% of all people in Wisconsin have jobs in agriculture.



Across

- 3. loans money to farmers
- 4. manages wild places
- 6. teaches animals
- 7. fixes machines

Down

- 1. animal doctor
- 2. works with flowers
- 3. gathers honey
- 5. buys animals, products or grain

banker	florist	trainer
beekeeper	mechanic	veterinarian
buyer	park ranger	

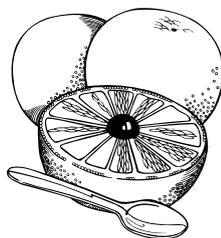
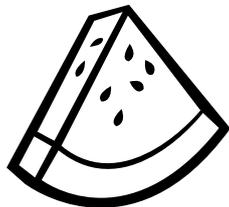
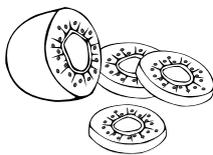
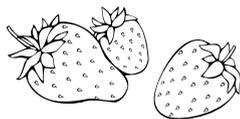
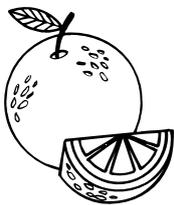
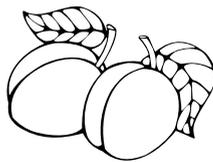


There are nearly 22 million people that work in jobs related to agriculture.



Kinds of Fruit

There are many different kinds of fruit. Common fruits are apples and oranges. Match the fruit names to the different fruits found below:



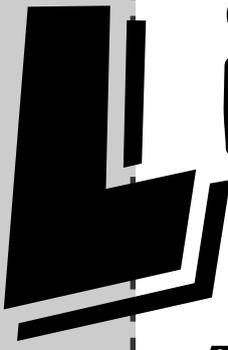
- apple**
- banana**
- grapefruit**
- grapes**
- kiwi**
- lemon**
- orange**
- peach**
- pear**
- plum**
- raspberry**
- strawberry**
- tomato**
- watermelon**



There are 200 seeds on a strawberry.

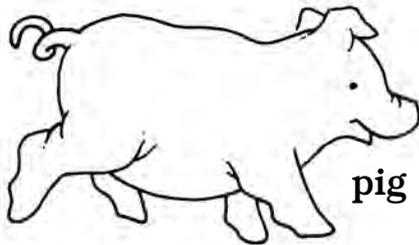
Circle the fruit that you have tasted and enjoyed.



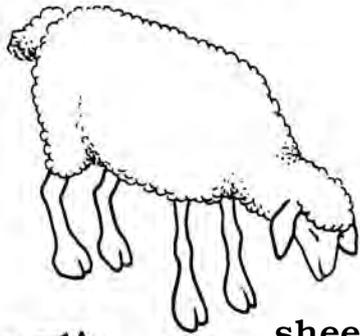


livestock

Livestock are animals raised by farmers. They give us food, clothing and many other things. Match these animals to what they give us.



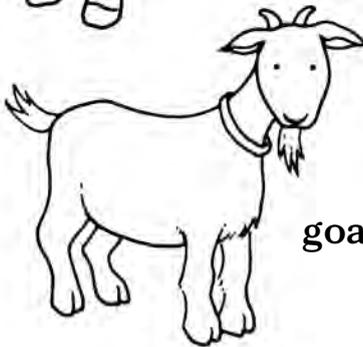
pig



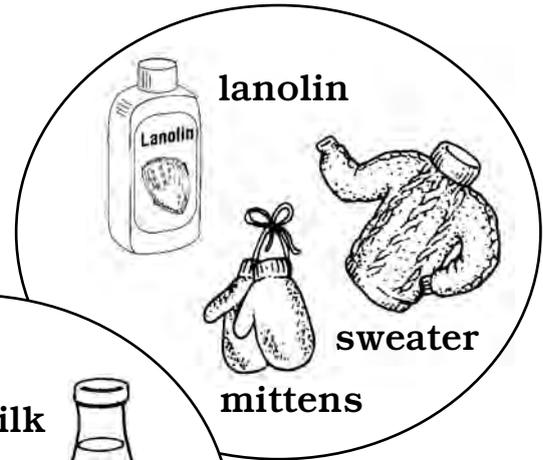
sheep



horse



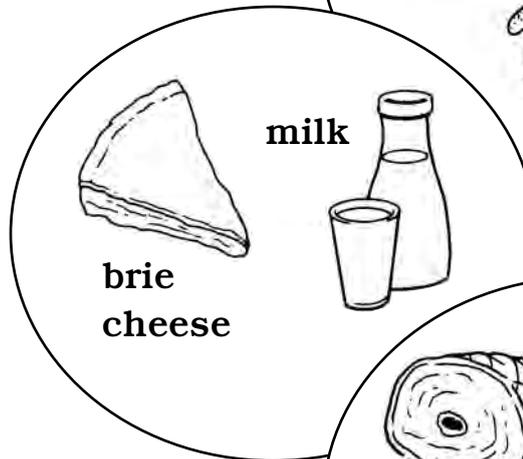
goat



lanolin

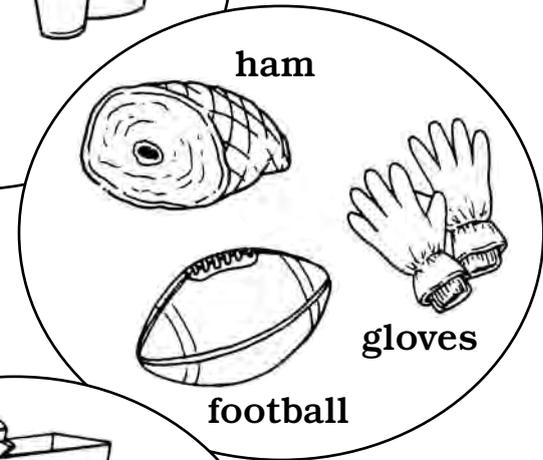
sweater

mittens



brie cheese

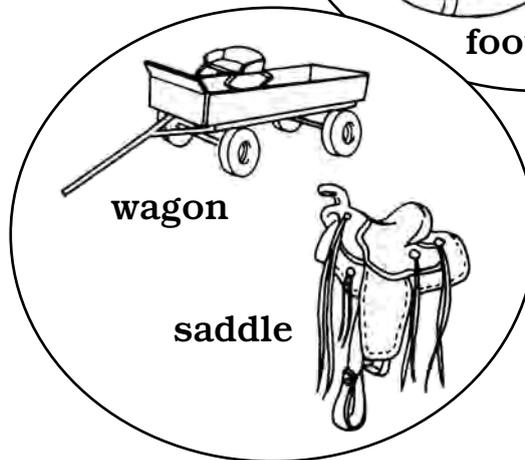
milk



ham

gloves

football



wagon

saddle

A group of goats are called a herd and a group of sheep are called a flock.

Milk and...

_____ comes from
cows and is good to drink.

Maple trees give us maple
_____ for our pancakes.

_____ is used
to flavor gum.

Farmers grow
_____ on logs.

_____ are animals
raised on farms and they
live in the wild.



syrup



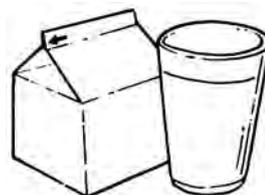
mushrooms



mink



mint



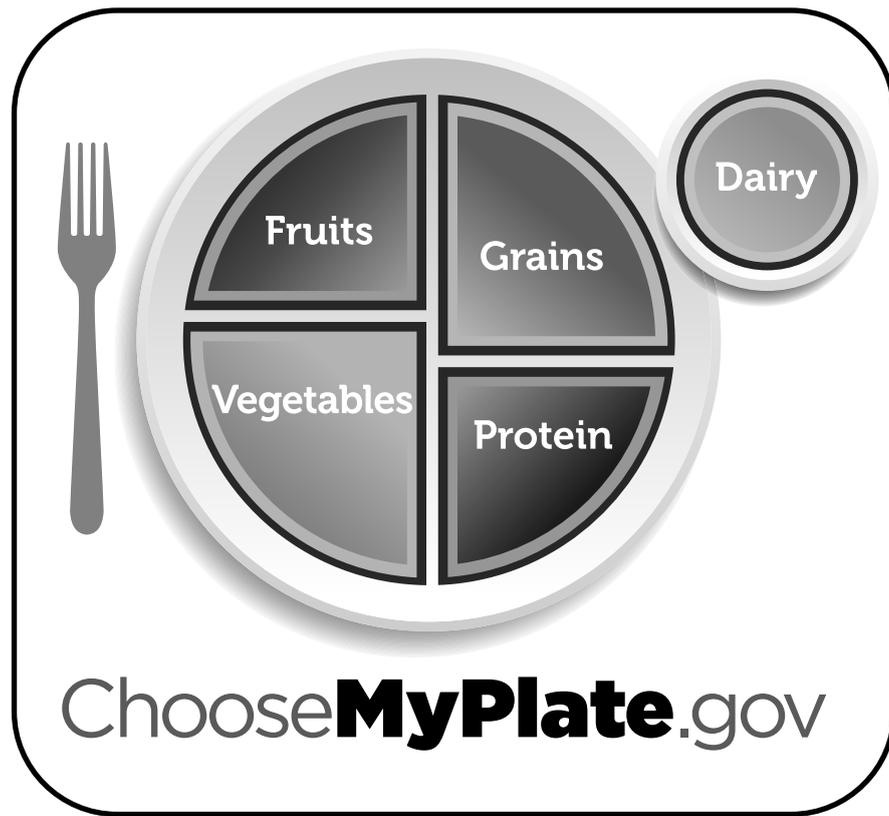
milk



One cow can give 90 glasses of milk in one day!

Nutrition

Our bodies need a variety of foods to keep us healthy. We need breads, fruit, vegetables, milk and meat everyday. Keep track of what you eat today.



- Grains**
Make half your grains whole
- Vegetables**
Vary your veggies
- Fruits**
Focus on fruits
- Milk**
Get your calcium-rich foods
- Meat & Beans**
Go lean with protein

Oils Oils are not a food group, but you need some for good health. Get your oils from fish, nuts and liquid oils such as corn oil, soybean oil and canola oil.

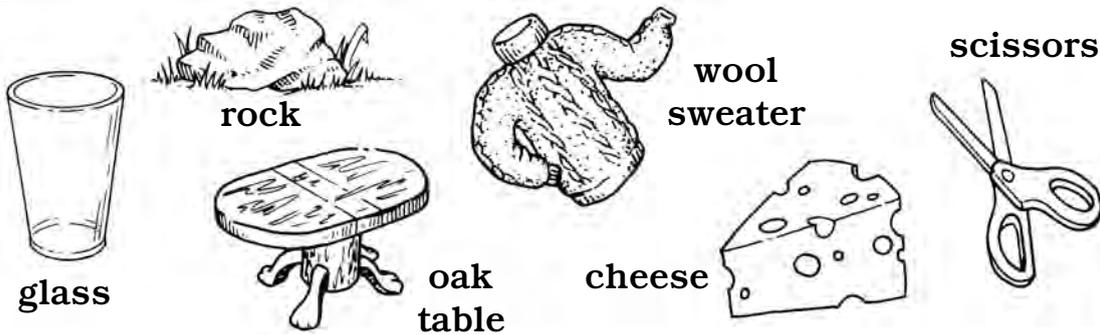


The cranberry was named Wisconsin's official fruit in 2004.

14

rganic

Organic means “from the living.” Many things can be organic. Clothing made from cotton, which is a plant, or wool, which comes from sheep, is organic. Soil can also be organic if it is made up of things that were once alive, such as leaves, grasses or other plants. Place these items under the correct list.



ORGANIC

NOT ORGANIC



The official USDA seal for a food product labeled “organic” has three colors in it - white, brown and green.

Paper



Paper is one of the many things we get from trees. Ask someone you know some of these questions:

- Name a fruit we get from a tree.
- What do trees give us to keep us cool?
- We get lumber from trees to build with. Have you built anything from lumber?
- What color can leaves be?
- Trees that stay green all year long are called what?
- Name something in your classroom that is made from wood?
- What is the sweet syrup called that we get from trees?
- Name five ways that you use paper every day.

Draw a leaf in this box:

Products made from paper that I use:

1.) _____

2.) _____

3.) _____

4.) _____

5.) _____

Wisconsin is the number one state in papermaking.



Questions

...about Agriculture...

Learning new information helps us become smarter. It is important to ask questions and to learn facts. Answer the questions below from the information found in this booklet.

How many cherries make up one pound?

How many important vitamins and minerals are found in one egg?

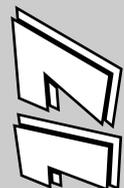
How many glasses of milk can one cow produce in one day?

What is often called “nature’s most perfect food”?

What do you call a person who is an animal doctor?

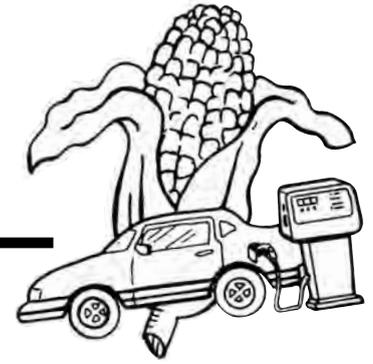


Someone asked, “How many American workers produce, process and sell food and fiber?” and someone answered, “21 million”.



R

Research



Scientists carry out research.

They study how things grow or work and then try new ideas to improve it. Research helps farmers who grow food for eating and fiber for clothing. Today's researchers are looking at new plants or new products. Research has helped make corn into ethanol to provide fuel for cars. Soybeans are used to make ink to print this book. Draw a line from the word to the item that is used in research.



Research has helped discover 5,400 different kinds of mustard.

18

Scale

Beaker

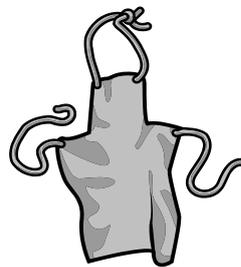
Microscope

Pipette

Safety Goggles

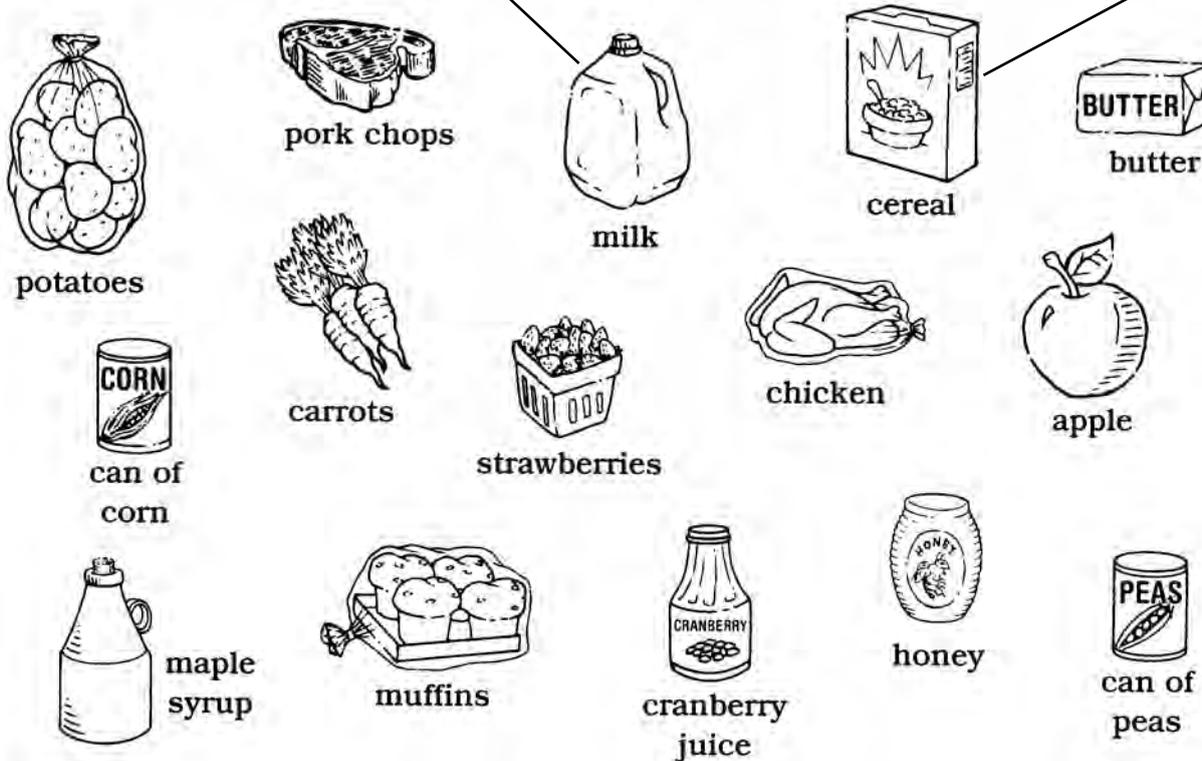
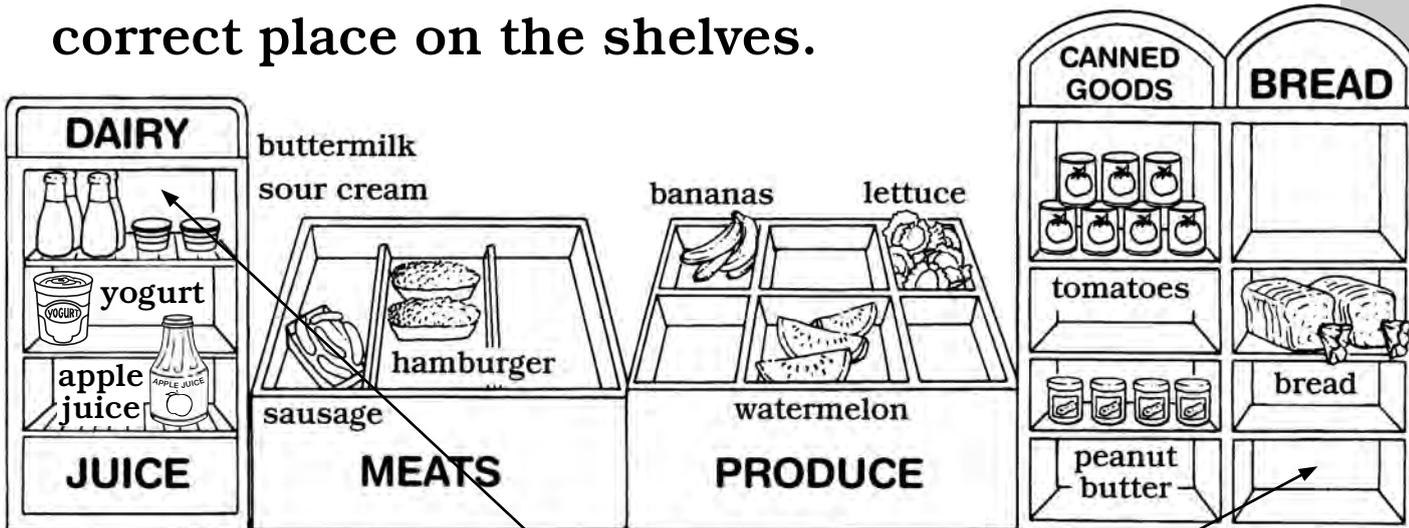
Lab Apron

Lab Book



Store

Farmers produce our food. Other people transport, package and label our food. Only then does the food get to the grocery store. Draw a line from the product to its correct place on the shelves.



The shopping cart was invented by Sylvan Goldman in 1937.

TROUT

What is aquaculture? Aquaculture is raising fish. Fish raised for food include trout, bluegill and yellow perch.



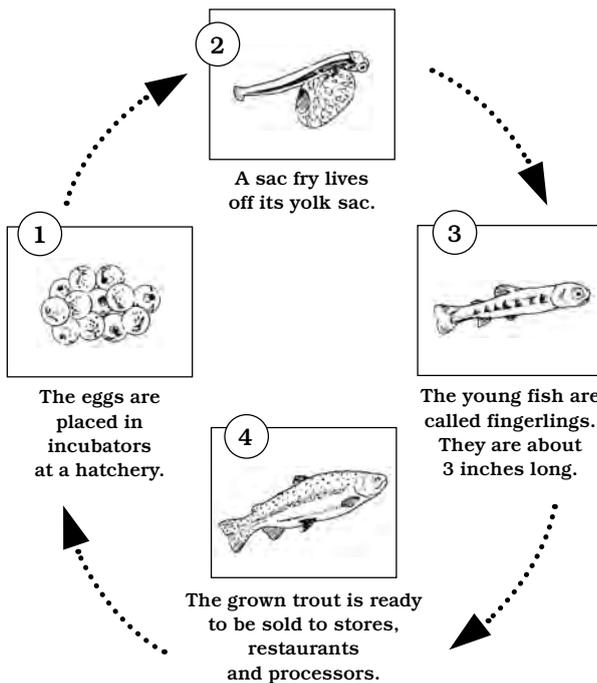
Fishing for facts:



- * Wisconsin ranks 9th in trout production in the United States.
- * The most popular food fish in Wisconsin is trout and yellow perch.
- * Wisconsin's state fish is the Muskellunge.



Rainbow trout only have upper teeth and no lower teeth.



Trout Life Cycle

Have you gone fishing?

Yes – No

What is your favorite fish?

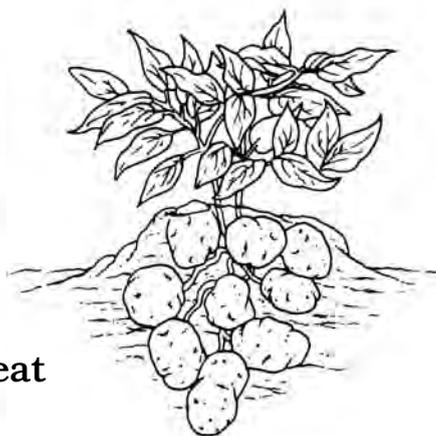
Understand

...the Plants we Eat...

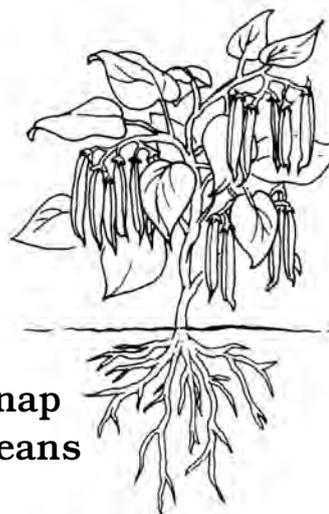
When we eat vegetables, we eat different parts of the plant. Sometimes we eat the leaves, other times we eat the stem, seeds or root. When we eat the roots it means we eat the part that grows **underground**. Color the part of each plant that we eat.



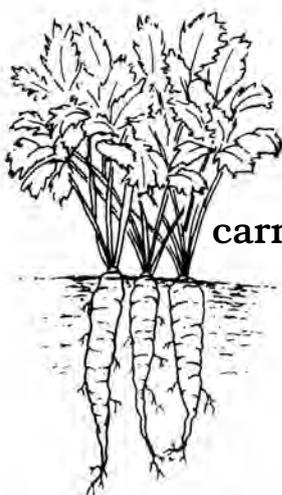
wheat



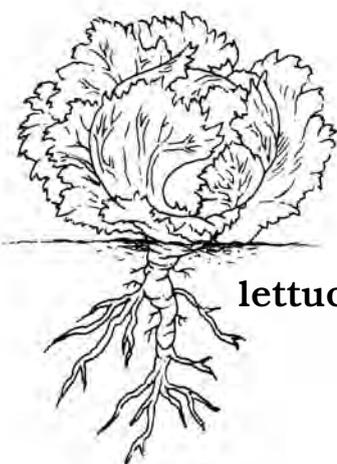
potatoes



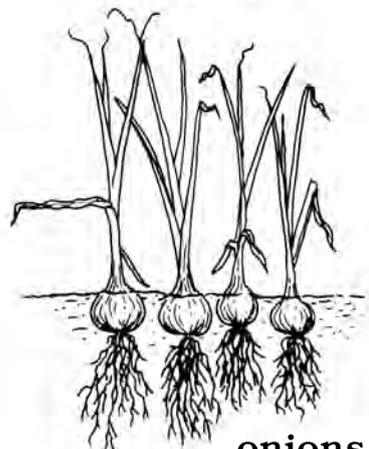
snap
beans



carrots



lettuce



onions



Snap beans are high in Vitamin K
which helps bones stay strong.

21

Vegetables

Wisconsin farmers grow many kinds of vegetables. We eat those vegetables fresh, frozen, canned or made into other products. Match these vegetables to the products we eat.



Cabbage is related to broccoli, cauliflower and Brussels sprouts.

22



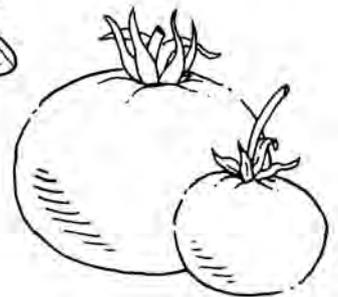
sweet corn



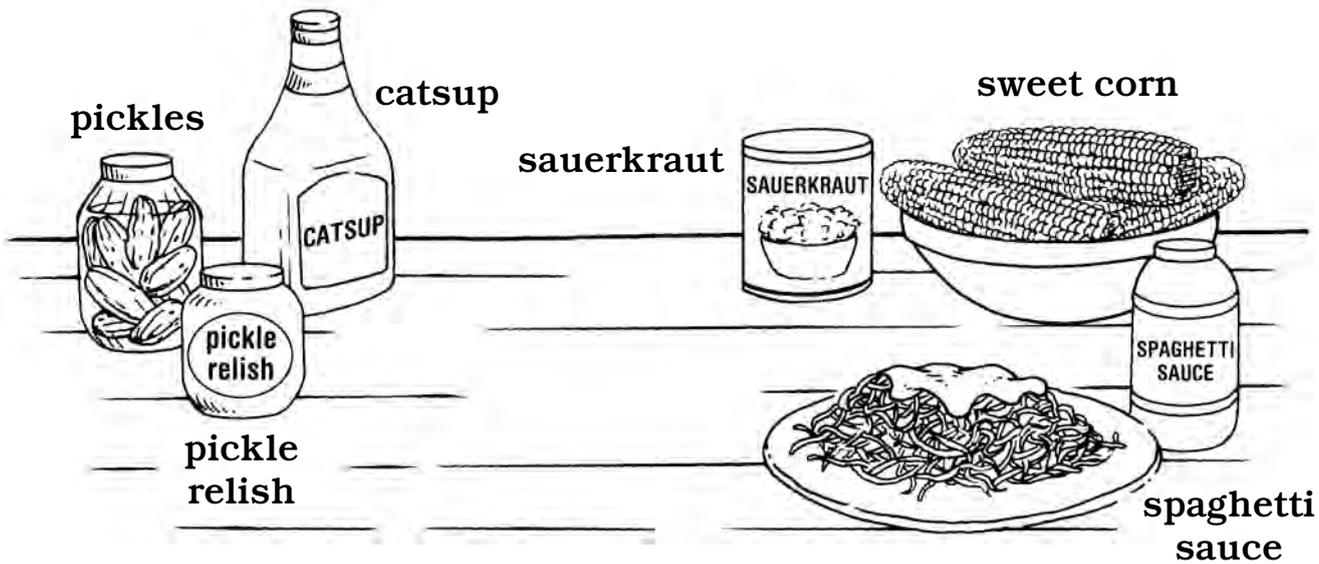
cabbage



cucumbers



tomatoes



pickles

catsup

sauerkraut

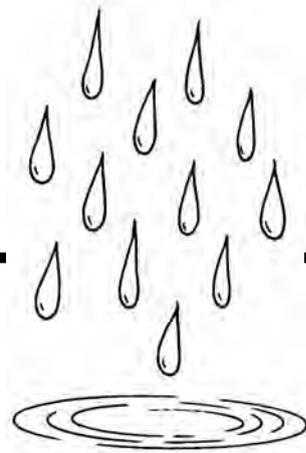
sweet corn

pickle relish

SPAGHETTI SAUCE

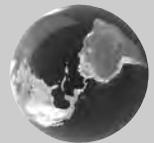
spaghetti sauce

Water



Water is very important in **agriculture**. All **plants** and **animals** need water to live. **Cranberries** are harvested using water. Farmers even grow some plants totally in water with no **soil**. This is called **hydroponics**. Sometimes farmers need to bring water to their **crops**. This is called **irrigation**. Find all the bold words about water in the puzzle below.

A N I M A L S A P A V U
V W A T E R A H A G A R
X A B I A J C L A R O B
S N L R M B R A W I N Y
H Y D R O P O N I C S J
P O Q I Z H P A L U H S
L A I G A Q S A D L W Z
A W X A E C A B R T U P
N M P T A P F G I U V B
T S O I L A S A C R D P
S E D O A S N V E E U A
C R A N B E R R I E S O



Groundwater makes up 98% of fresh water on the Earth.

eXotic

Match the word to the picture.

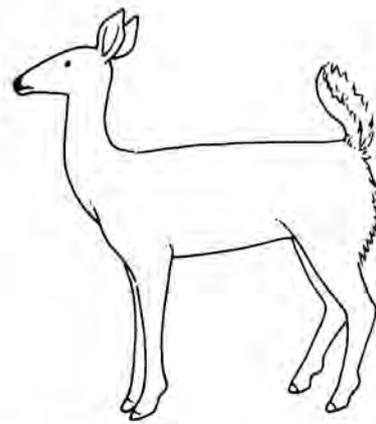


An Ostrich can weigh as much as 400 pounds and stand as tall as 10 feet making them the largest bird.

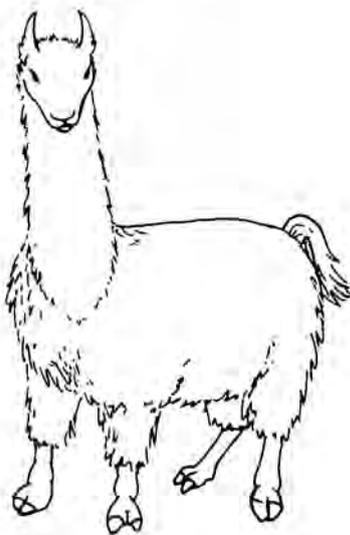
24



Buffalo



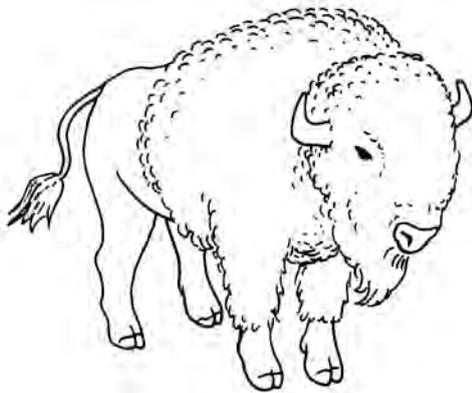
Elk



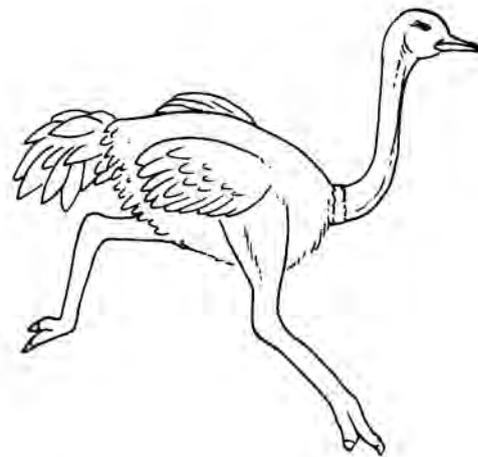
Emu



Deer



Llama



Ostrich

YOU...

are important!

You are important. Agriculture is important too!

You are connected to agriculture by eating your favorite food.



The clothing that you wear connects you to agriculture. Clothing is made from fiber.



Your home is built with lumber from trees grown. Forestry is a big part of agriculture.

You can always learn more about agriculture.

You can have a career in agriculture.



-
- Do you know someone who works in agriculture? Yes – No
 - Does the world need agriculture? Yes – No
 - Are there many careers in agriculture? Yes – No
 - Agriculture is important today. Is it important in the future? Yes – No



Blue jeans were invented in 1873 by Jacob Davis and Levi Strauss and you may be wearing a pair today.

Zoom

As you zoom into the future, agriculture will change.

Circle what you like to do:

Cook

Build Things

Catch Fish

Skateboard

Garden

Camp

Draw

Hike

Swim



Play Video Games



Feed Animals

Pick Flowers

Visit a Zoo

Walk Your Dog

Ride Bicycle

Read a Book

Bird Watch

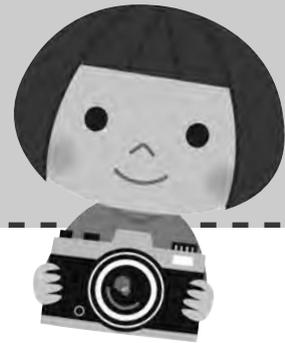


Draw your favorite two:

A large, empty rectangular box with a black border, intended for drawing a favorite activity.A large, empty rectangular box with a black border, intended for drawing a favorite activity.

The future points to rooftop gardens as a growing part of urban agriculture.

Get in the Picture of Agriculture and the Great Outdoors



Circle the exercises that you do together as a family that help keep you fit.



Take a photograph of your family exercising together outside and place it here:



Explore... in the Grocery Store

A visit to a grocery store can be a wonderful time
creating great smiles,
Explore food choices with your parents as you shop
the grocery aisles.

Explore the food grains carefully too,
Don't forget the fruits with their colorful hue.

There are vegetables to add to your grocery cart,
Making your grocery cart, grocery smart.

Calcium-rich foods can be a choice in the grocery store,
Time to think about adding in more.

Meats and the very important bean,
Give us lean protein.

Fish, nuts, and liquid oils are there,
Does the family grocery list include
one or a pair?

So much to choose from and there
is much to explore,
In the hometown grocery store.

Grocery check-out time is now at hand,
Remember the groceries came from
precious farm land.



Home From the Store



Time to go home and unload the groceries
Place checkmarks in the boxes of each category.

GRAINS

VEGETABLES

FRUITS

MILK

MEAT

BEAN

FISH

NUTS

LIQUID OILS

SUGARS & SNACKS

Sugars & snacks are treats. Treat yourself to them once-in-a-while!

Which category had the most checkmarks?

Which category had the least checkmarks?



Cooking With Color

Now it's time to make a meal with your family from the groceries that you bought. A colorful plate is a smart & healthy food plate. How does yours rate? Draw your meal on the plate and then color in the different foods.



Count the different food colors on your plate: _____

Do you find the colors of the rainbow on your plate? Yes - No

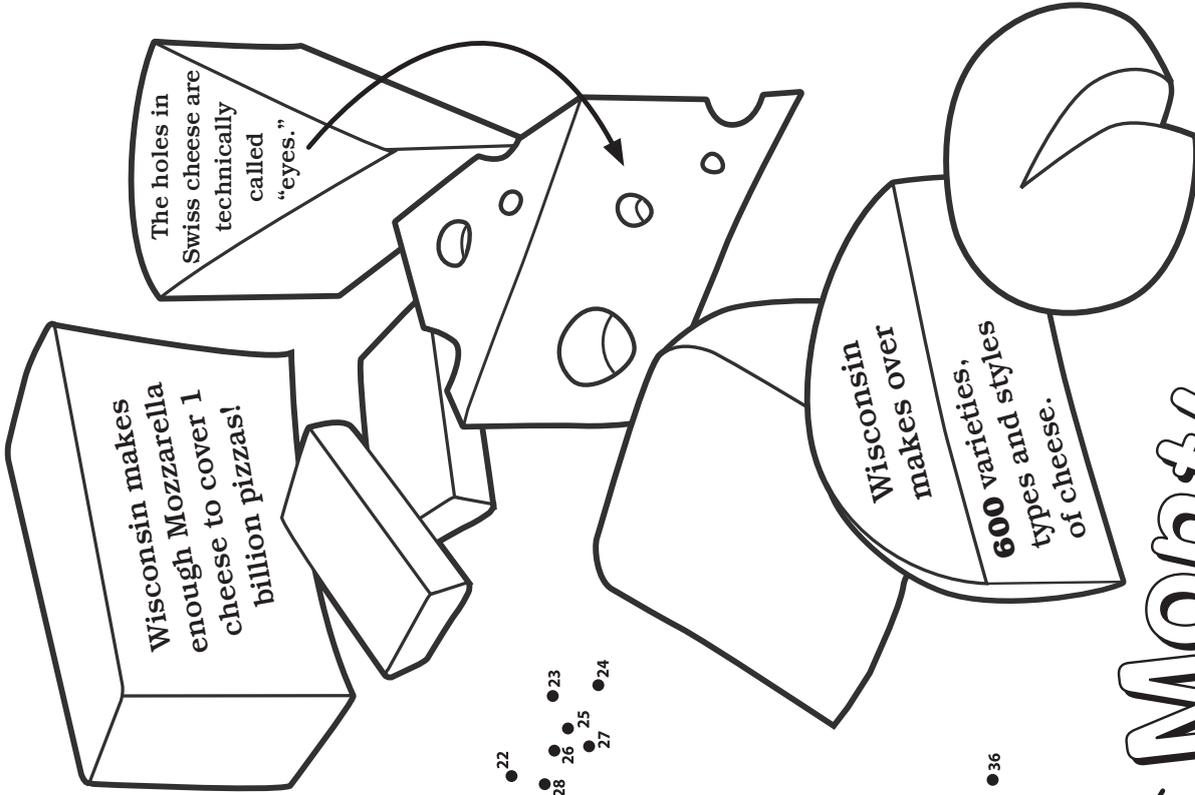
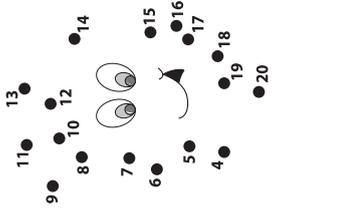
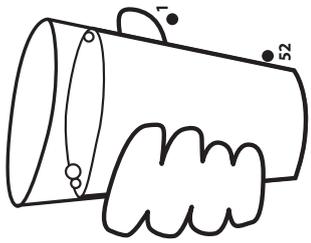


et's Go Farming

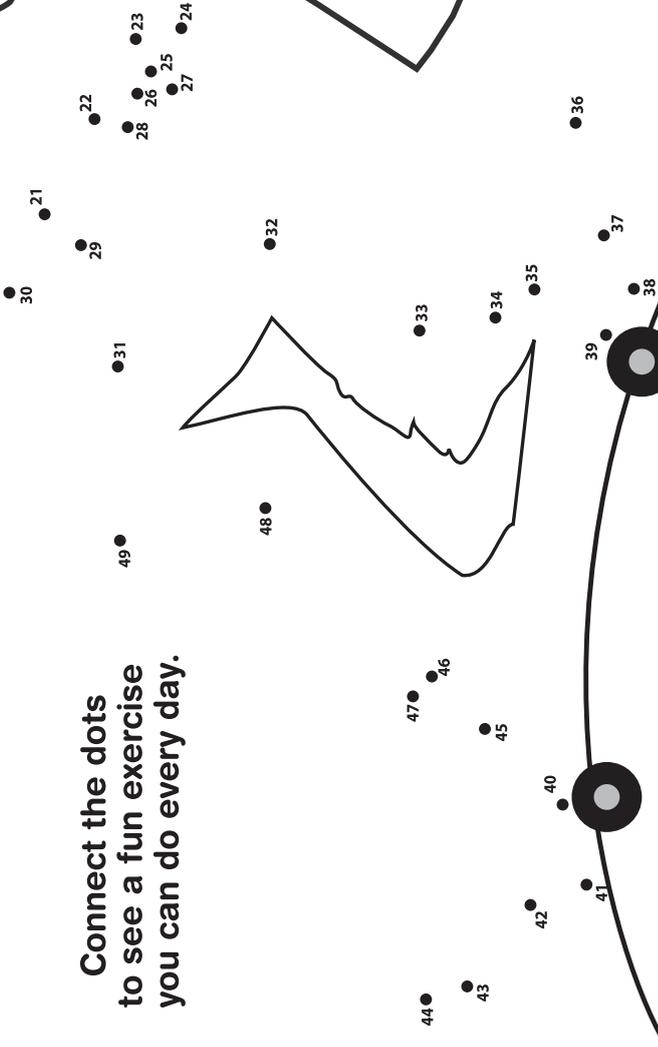
Did you know that 99% of the farms in **Wisconsin** are owned and operated by families. If you were going to farm, what kind of plants and animals would you raise. Draw a picture of the way your farm would look.



Get Moving



Connect the dots to see a fun exercise you can do every day.



June is Dairy Month!





Wisconsin Agribusiness Foundation

PO Box 46100
Madison, WI 53744-6100

www.wisagri.com