SCHOOL EALENDAR Photos by Ken Kashian, Cyndi Cook - Illinois Farm Bureau®

For more photos, go to ilfb.org and click on Ken Kashian's Photo Gallery

2014-2015



Brooder, fertilized, protein, embryo, breed, incubator, albumen

August 2014

Recommended Reading:

Chicks and Chickens by Gail Gibbons Turkeys by Rachael Bell From Egg to Chicken by Anita Ganeri Diary of a Pet Turkey by Joanne Ingis

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
27	28	29	30	31	Female chickens are called pullets for their first year or until they begin to lay eggs. Then, they are called hens.	2
3	4 Laying hens sit on eggs for 21 days until they hatch.	5 A baby chicken is called a chick.	6 Once chicks hatch they are put in a room called a brooder.	7 The egg shell may have as many as 17,000 tiny pores over its surface.	8 Only fertilized eggs will hatch.	9
10	11 Most eggs produced today will be at the grocery store within 72 hours.	As a chick embryo develops in a fertilized egg, the yolk provides nourishment and the albumen cushions the embryo.	13 Chickens need grit, which is a mixture of angular, hard crushed rock, in their diet to produce eggs.	14 Eggs contain the highest known quality food protein.	15 Hens usually need to eat about four pounds of feed to produce a dozen eggs.	16
17	18 The color of the egg is determined by the breed of chicken laying the egg and has nothing to do with their diet.	19 A poult is the name for a young turkey.	An incubator is a box which maintains a constant temperature and is used to hatch eggs.	21 Most eggs are laid between 7 am and 11 am.	The top 5 egg producing states are lowa, Indiana, Ohio, California and Pennsylvania.	23
24 31	25 As a hen ages, her eggs increase in size.	An eggshell has a protective coating that prevents bacteria from entering the egg. To retain this coating, eggs should not be washed until just before use.	27 Eggs contain 13 essential vitamins and minerals.	28 A hen requires 24-26 hours to produce an egg.	You can tell whether an egg is fresh or stale by dropping it in water. A fresh egg will sink, and a stale one will float.	30



Pit, rootstocks, scion, Prunus persica, acidic, cultivated, grafting

September 2014

Recommended Reading:

Peach & Blue by Sarah S. Kilborne From Pit to Peach Tree by Ellen Weiss James and the Giant Peach by Roald Dahl A Peck of Peaches by Carol Crane Ross and the Peach Tree by Jill S. Hardin

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
31	Each peach has a hard stone called a pit in the center.	A peach pit has a seed inside. The pit needs to crack open before the seed can start to grow.	A large peach has fewer than 70 calories and contains 3 grams of fiber. It is also a good source of vitamins A and C.	Peaches were mentioned in literature as early as 79 A.D.	5 In China, the peach is a symbol of good luck, immortality and friendship.	6
7	8 The peach is a member of the rose family and is a close relative of almonds.	There are over 700 varieties of peaches. Some Chinese varieties are even flat like hockey pucks!	10 The peach originated in China and was introduced to the West through Persia.	11 Christopher Columbus brought several peach trees to America on his second and third voyages.	The nectarine is a variety of peach. It has one recessive gene which makes its skin smooth instead of fuzzy.	13
14	China is the world's largest producer of peaches, with Italy second. The United States produces 25% of the world's total supply.	16 The two basic types of peaches are clingstone and freestone.	17 Cling, or clingstone peaches, have a pit to which the flesh 'clings.' The flesh separates easily on a freestone peach.	18 The peach can have yellow or white flesh. White peaches are sweeter and less acidic than the more traditional golden peach.	19 The term "you're a real peach" originates from the tradition of giving a peach to your friends and loved ones.	20
21	Prunus persica, the peach's scientific name, is a direct reference to the fruit's travels from China to Persia along the Silk Road.	True wild peaches are only found in China. Unlike the cultivated fruit, the wild fruit is small, sour and very fuzzy.	Most peaches are cultivated by grafting different combinations of rootstocks to a young shoot or twig of a plant called a scion.	25 The juice from a peach makes a wonderful moisturizer, and it can be found in many cosmetics.	26 So many peaches are grown in Georgia that it is known as the Peach State.	27
28	29 California produces more than 50% of the peaches in the United States (and grows 175 different varieties).	Peaches do not gain flavor with cooking.	1	2	3	4



Angiosperm, pepitas, edible, cucurbits, varieties, potassium, continent, cross-pollination

October 2014

Recommended Reading:

How Many Seeds in a Pumpkin? by Margaret McNamara Too Many Pumpkins by Linda White It's a Fruit, It's a Vegetable, It's a Pumpkin by Allan Fowler Just Your Average Princess by Kristina Springer

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
28	29	30	1 Pumpkins are a member of the gourd family and are a fruit.	2 One vine on a pumpkin plant can grow up to 20 feet long.	3 It takes 110 days for a pumpkin vine to produce mature pumpkins.	4
5	6 Illinois farmers grow more pumpkins than anywhere else in the world.	Pumpkins can range in size from less than one pound to more than 1,000 pounds.	8 Illinois grows 90-95% of the pumpkins used for processing. Most of that processing takes place in Morton, IL, the Pumpkin Capital of the World.	Pumpkin vines develop big orange blossoms about a month after planting. Each flower has 5 petals and is edible.	10 Giant pumpkins can grow 5 pounds a day.	11
12	13 Pumpkins are 90% water.	14 Native Americans taught the Pilgrims how to grow pumpkins.	15 "Three Sisters," a method of growing corn, beans and pumpkins together in one place, was developed by Native Americans.	16 Pumpkins have been grown in North America for five thousand years.	17 The heaviest pumpkin on record weighed over a ton at 2,009 pounds.	18
19	20 Cross-pollination can be used to create brand new varieties of pumpkins.	Pumpkins are angiosperms, which is a fancy name for plants with flowers.	Pepitas is another name for pumpkin seeds.	Antarctica is the only continent where pumpkins cannot grow.	24 A pumpkin root, called a tap root, can grow 2 to 3 feet deep.	25
26	Pumpkins are low in calories, fat and sodium, and are a great source of vitamin A and potassium.	28 Pumpkins originated in Central America.	The name pumpkin originated from "pepon," the Greek word for "large melon."	30 A pumpkin is a member of the Cucurbita family, and is a squash.	31 Native Americans used pumpkin as a staple in their diets centuries before the Pilgrims landed.	1



November 2014

Recommended Reading:

The Milk Makers by Gail Gibbons
Clarabelle by Cris Peterson
Black and White by David Macaulay
Ice Cream: the Full Scoop by Gail Gibbons
MILK! Life on a Dairy Farm by Ruth Owen

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
26	27	28	29	30	31	1
2	3 Each year, U.S. dairy farmers provide milk to make more than 1 billion gallons of ice cream and 7 billion pounds of cheese!	Dairy cows come in many colors. The black and white cows are Holsteins. Most of the dairy cows in the U.S. are Holsteins.	Dairy cattle are called ruminants because they have four compartments in their stomach.	6 A cow drinks 30-50 gallons of water each day.	7 Dairy cows eat hay, silage and grain. Silage is fermented corn, wheat or hay with the stalks and leaves.	8
9	10 Heifers are female dairy cattle. After 2 years a heifer gives birth, and is then called a cow.	11 All female dairy cows must have a calf to produce milk.	The gestation (pregnancy) period for cows is nine months, and newborn calves weigh 80-100 pounds.	13 It takes 10 pounds of milk to make one pound of cheese.	14 Louis Pasteur discovered the process called pasteurization; this process is used to protect the purity and flavors of milk.	15
16	17 Milk is a great source of protein and calcium; it is sometimes called nature's most nearly perfect food.	18 A typical dairy cow weighs 1,400 pounds.	Cows have an acute sense of smell and can smell something up to six miles away.	Plastic milk bottles were first introduced in the United States in 1967.	21 On today's farms, cows are milked 2-3 times a day with automated milking machines.	22
23 30	24 Illinois has about 102,000 dairy cows that produce close to 2 billion pounds of milk a year.	25 The udder is the part of a dairy cow that produces and stores milk.	26 Special trucks haul the milk from the farm to the dairy plant. The truck keeps the milk cold-like a giant thermos on wheels.	27 On average, one dairy cow can produce about 6.5 gallons of milk per day.	28 Milk remains fresh for 7-10 days after the expiration date if refrigerated at 35-40 degrees Fahrenheit.	29



December 2014

Recommended Reading:

A Hog Ate My Homework by Gary Metivier
Pigs will be Pigs by Amy Axelrod
Pigs & Pork in the Story of Agriculture by JoAnne Buggey and Susan Anderson
Pigs to the Rescue by John Himmelman
Pigs by Gail Gibbons

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
30	1 A baby pig is called a piglet. Mother pigs are called sows.	Piglets weigh about 2 1/2 pounds at birth and will weigh about 280 pounds by the time they are four to six months old.	3 Pigs are very smart; they rank as the fourth most intelligent animal.	Pigs cannot sweat, so farmers use sprinklers and fans to keep them cool.	5 In hog production farrowing means giving birth.	6
7	8 Insulin is made from pigs' adrenal glands and helps people with diabetes lower their blood sugar.	9 Hot dogs, made from pork, were first introduced to the public in 1904 at the St. Louis World's Fair.	A pig's tongue contains 15,000 taste buds. In comparison, a human tongue has only 9,000 taste buds.	11 A pig's diet is mostly made up of ground corn and soybeans.	12 Illinois ranks fourth in pork production behind Iowa, North Carolina and Minnesota.	13
14	There are more than 180 species of pigs. They are found on every continent except Antarctica.	Compared to ten years ago, pork has 30 percent less fat, 14 percent fewer calories, and 10 percent less cholesterol.	Most pigs are raised indoors to keep them safe from extreme weather conditions.	18 As pigs grow they can eat up to 9 pounds of feed per day.	19 A gilt is a female pig that has not given birth.	20
21	Pork is the food and products that come from pigs. Pork chops, bacon and ham are some examples of pork.	Manure is a great source of nutrients that plants need to grow. Hog manure is often spread on fields as fertilizer.	In old days, sea captains kept pigs on board because they believed that pigs always swam toward the nearest shore.	25 The pork industry contributes \$1.8 billion to the Illinois economy annually.	Pigs are one of the few animals that will not overeat.	27
28	An average litter includes about eight to twelve piglets.	30 Most sows will give birth to 2 - 3 litters of piglets each year.	31 Clinton County raises more pigs than any other county in the state of Illinois. There are 245,000 pigs in that county alone!	1	2	3



Gait, enclosure, yearling, withers, Hippology, breed, foal, genus, equine

January 2015

Recommended Reading:

War Horse by Michael Morpurgo Leah's Pony by Elizabeth Friedrich National Velvet by Enid Bagnold Horses! by Gail Gibbons

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
28	29	30	31	A hand is a unit used to measure the height of a horse. A hand is equal to 4 inches.	Professionals that trim horses' hooves are called farriers.	3
4	5 A yearling is a horse that is one year old.	The average life span of a horse is 20-25 years, although they can live for up to 30 years.	7 A large enclosure to hold a horse is called a paddock.	8 A foal is a newborn horse.	9 Wild horses of the Western plains are called Mustangs.	10
11	12 The four natural gaits of a horse are the walk, trot, canter and gallop.	The height of a horse is measured from the ground to their withers. The withers are the high point between a horse's shoulder blades.	14 Hippology is the study of horses.	15 A filly is the name for a young, female horse.	16 Tack is the name given to brushes, saddles and other equipment used to ride and care for horses.	17
18	19 A thoroughbred horse can run a mile in 90 seconds.	A group of horses is called a herd.	21 There are more than 350 different breeds of horses and ponies.	Horses belong to the genus called equus, or equine.	23 Horses drink 10 to 12 gallons of fresh water every day.	24
25	26 The smallest breed of horse, the Falabella, grows to only 30 inches in height.	27 Gait is a term used to describe the way a horse moves.	28 Horseback riding is proven to have therapeutic benefits to humans with physical and mental illnesses, and provides assistance to people with disabilities.	Horses have strong teeth, sharp ears, keen eyes and a good sense of smell.	30 Horses' hooves need to be trimmed regularly (about every 6-8 weeks).	31



Bovine, by-product, regurgitated, insulin, hooves, cud, aerate

February 2015

Recommended Reading:

The Beef Princess of Practical County by Michelle Houts Little Joe by Sandra Neil Wallace Life on a Cattle Farm by Judy Wolfman Amazing Grazing by Cris Peterson Beef Cattle: An A to Z Book by Susan Anderson and JoAnne Buggey

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	2 Cattle are called ruminants; their stomach has four compartments that help break down and digest their food.	A calf weighs 80-100 pounds at birth.	4 Many medicines, including insulin, are made from the glands of the cow.	5 Beef by-products help us to use 99% of every beef animal.	6 Partially digested, regurgitated food is called "cud."	7
8	9 Beef is a good source of ZIP-zinc, iron and protein.	10 The first cow in America arrived in Jamestown colony in 1611.	11 Stearic acid, used to make automobile tires hold their shape, comes from cattle.	12 Branding and ear tags are ways farmers mark their cattle for easier recognition.	13 Ground beef is the most popular form of beef.	14
15	16 Beef fat, called tallow, is an ingredient in soaps, cosmetics, candles, shortenings and chewing gum.	17 It takes the hide of 3.8 steers to make 72 footballs.	18 A cow's diet is mainly grass and hay with some feed supplements.	There are many breeds of cattle. The most popular breed is Angus, which is solid black and known for its high quality of meat.	20 Cows can see in color, just like us!	21
22	23 Cattle are part of the bovine (Bovidae) family which also includes sheep, goats, goat- antelopes and antelopes.	24 We use 40% of the average steer for beef; the remainder of the steer is used for beef by-products.	25 Cattle scatter seeds, trim wild grasses, and aerate the soil with their hooves.	26 The U.S. supplies 25% of the world's beef supply with 10% of the world's cattle.	Ground beef, roast, sirloins, steaks, ribs and chuck are cuts of beef.	28
1	2	3	4	5	6	7



March 2015

Recommended Reading:

Bread Comes to Life: A Garden of Wheat and Loaf to Eat by George Levenson Food: Bread by Louise Spilsbury
The Thing About Luck by Cynthia Kadohata
The Wheat Doll by Allison Randall
Grains by Jill Kalz

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	2 Illinois produces soft red winter wheat, which is used in cake mixes and pretzels.	Kansas produces the most wheat of any state, while Illinois ranks third in the nation.	4 One bushel of wheat yields 60 pounds of whole-wheat flour.	5 A wheat plant grows to be 2 to 4 feet high.	The head of a wheat plant is called a spike head and contains 50 to 75 kernels.	7
8	9 Wheat yields have improved by approximately 1/2 bushel per acre each year since 1900.	10 Wheat is grown in 42 states in the United States.	11 To "harvest" means to remove wheat kernels from the wheat plant.	12 A family of four can live 10 years off the bread produced from 1 acre of wheat.	13 A kernel of wheat, sometimes called the wheat berry, is the seed from which the wheat plant grows.	14
15	16 The wheat plant below the spiked head is called straw, which is bundled and used for animal bedding.	17 Wheat from area farms is collected at grain elevators and then shipped to flour mills.	18 Wheat is used in bread, pasta, cereal, pretzels and licorice.	19 More foods are made with wheat than any other cereal grain.	20 A modern combine can harvest 1,000 bushels of wheat per hour.	21
22	23 A new variety of wheat can take up to 17 years to develop before it is available for farmers to plant.	24 Wheat kernels are ground into flour.	25 America produces 12% of the world's wheat crop.	About 83% of the wheat produced in Illinois is grown in the southern half of the state, where there is a longer growing season.	27 A bushel of wheat makes about 90 one-pound loaves of whole-wheat bread.	28
29	A combine cuts the wheat and then cleans and separates the kernels from the plant.	31 Wheat contains a lot of protein, which is good for you.	1	2	3	4



April 2015

Recommended Reading:

Apples by Gail Gibbons
Apple Picking Time by Michele Benoit Slawson
From Seed to Apple by Anita Garneri
Apples to Oregon by Deborah Hopkinson and Nancy Carpenter
How Do Apples Grow? by Betsy Maestro

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
29	30	31	The Illinois State Fruit is the GoldRush Apple. It is a yellow, sweet-tart apple variety.	Red Delicious apples are the most widely grown in the United States.	The Pilgrims brought the apple to the United States in 1620, and in 1730 the first apple nursery opened in Flushing, New York.	4
5	6 7,500 varieties of apples are grown in the United States.	Apples contain Vitamins A, C, B6, and B12, along with thiamin and niacin.	8 It takes about 15 years for a tree grown from a seed to produce an apple. Therefore, most apple trees are grown by grafting or budding onto already existing rootstocks.	9 Sunlight causes a chemical reaction in the sugar of apples. That is why they change colors.	10 A medium sized apple has 5 grams of fiber, 20% of the recommended daily allowance.	11
12	13 Washington, New York, Michigan, Pennsylvania and California are the top apple producing states.	14 Apples contain five seed pockets. Usually, each pocket contains a seed.	Tree leaves produce energy for fruit to grow. It takes more than fifty leaves to grow one apple.	Don't peel your apple. Two- thirds of the fiber and many antioxidants are found in the peel. Antioxidants help reduce cell damage.	The crabapple tree is the only apple tree native to North America.	18
19	Apples were the favorite fruit of ancient Greeks and Romans.	21 It takes 36 apples to create one gallon of apple cider.	Almost one out of every four apples harvested in the United States is exported.	23 The apple tree originated in an area between the Caspian and Black Sea.	24 In colonial times, apples were called winter bananas or melt-in-the-mouths.	25
26	Archeologists have found evidence that humans have enjoyed apples since at least 6500 B.C.	28 Apples will ripen six to ten times faster at room temperature than if they are refrigerated.	The average size of a United States apple orchard is 50 acres.	Apples are a member of the rose family.	1	2



Words and terms to learn:

Ethanol, environment, renewable fuel, biodegradable, evaporation, processed

May 2015

Recommended Reading:

Anna's Corn by Barbara Santucci
Corn by Gail Gibbons
Corn Belt Harvest by Raymond Bial
Awesome Agriculture Corn by JoAnne Buggey and Susan Anderson
The Life and Times of Corn by Charles Micucci

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
26	27	28	29	30	The majority of corn grown in Illinois is field corn, which is used for animal feed and processing, and ethanol production.	2
3	A Native Americans taught the settlers of Jamestown how to grow their own corn.	Dent, or field corn, is higher in starch and lower in sugar than sweet corn, the type of corn eaten as a vegetable.	Tassels, stalks, silks, husks, ears, leaves, roots and kernels are all part of corn plants.	America's corn farmers are the most productive in the world, growing 20% more corn per acre than any other nation.	8 An acre of corn will give off 4,000 gallons of water per day in evaporation.	9
10	11 There are several varieties of corn. Some of the more common are sweet corn, field corn and popcorn.	12 Ethanol is a high performance, renewable fuel that is made from corn.	13 One bushel of corn weighs 56 pounds.	14 Field corn can grow 15 feet tall in 2-3 months! The corn plant grows brace roots above ground to help support it.	15 Each corn kernel contains four major components: starch, protein, oil and fiber.	16
17	Processed corn is soaked and milled (ground) so the germ oil, starch, gluten and hulls can be separated.	19 Scientists created a road de-icer from corn that is environmentally friendly.	Field corn is processed to make many products we use every day.	An ear of corn will always have an even number of rows, usually between 8 and 36.	lowa, Illinois, Nebraska and Minnesota produce more than half of the corn grown in the U.S.	23
24 31	25 After an average of 120 days of growth, the corn plant dies and is harvested with a machine called a combine.	26 Ethanol is biodegradable and does not pollute groundwater.	27 Americans today consume 16 billion quarts of popped popcorn each year, or 52 quarts per person.	28 Sweet corn is sweet because it turns starch into sugar.	29 One bushel of corn produces 2.8 gallons of ethanol.	30



Words and terms to learn:

Legumes, biodiesel, protein, bushel, taproot, edible

June 2015

Recommended Reading:

Auntie Yang's Soybean Picnic by Ginnie Lo
Oh Say Can You Seed? by Bonnie Worth
Awesome Agriculture Soybeans: An A-to-Z Book by Susan Anderson and JoAnne Buggey
One Bean by Anne Rockwell
The Super Soybean by Raymond Bial

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
31	Soy ink is used in over 95% of America's daily newspapers.	2	Soybean plants are bushy, green plants that grow 3-5 feet tall, called legume	7	The soybean is the highest natural source of dietary fiber.	6
7	8	9 Soybeans are good for cro rotation because they leav nitrogen in the soil for the	e 10	11 China uses more Americar grown soybeans than any other country.	12	13
14	Decatur, Illinois, is the Soybean Capital of the World.	16 next crop.	17 One acre of soybeans can produce 82,368 crayons.	18	Henry Ford experimented with soy-based plastics in the production of his cars.	20
21	22	23 George Washington Carv invented a process for making paints and stains		For thousands of years Asia countries have been eating soybeans and using by-		te 27 s.
28	29	30 from soybeans.	1	products from its plant.	3	4
			July 2015			
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
28	29	30	One bushel of soybeans weighs 60 pounds.	2	During fall, the soybean plar turns brown, and the leaves off before they are harvested	drop -
5	6 Biodiesel is made from soybeans and is good for environment since it burn		8 The livestock industry is the largest consumer of soy me		10	11
12	13 cleaner than regular diese			16 One bushel of soybeans can produce one and a had gallons of biodiesel and 4		18
19	20 During the Civil War, soybeans were used in place of coffee because	21	22 Soybean oil is the main edible oil used in the United States. Soybeans are the #1	23 pounds of soybean meal.	24 A soybean seed grows a lit tail-like root called a radicl The tail then becomes the	le.
26	27 real coffee was so scarce.	28 Many countries use soybear as a protein source rather than meat, eggs or cheese	ns 29 ingredient in vegetable oil.	30	31 main root, called a taproo	

AG MAGS ARE AVAILABLE ON-LINE AND IN CLASSROOM SETS OF 30.





www.iaafoundation.org

IAITC is supported through contributors to the IAA Foundation.



The Illinois Agriculture in the Classroom Ag Mags are four-page, colorful agricultural magazines for kids.

They contain information about agriculture, classroom activities, agricultural career interviews and bright pictures.

Ag Mags are available on-line and in classroom sets of 30. Contact your local County Farm Bureau to order some today!

Soil

Apples Horse

BeefLivestockSoybeansBiotechnologyNutritionSpecialty CropCareersPorkUrban

Corn Pumpkin

Dairy Renewable Energy

