Wild Science

SOLUTIONS

Sheri Amsel

Exploring Nature Educational Resource www.exploringnature.org

Wild Science Read and React Activities

Read the Essay and Take the Reaction Quiz

Reaction Quiz

Amphibians – *Class Amphibia*

Amphibians are in a group – or *Class* – of animals that are vertebrates, which means they have a

backbone	. They include	frogs	. toads.	salamanders	
----------	----------------	-------	----------	-------------	--

_____, and newts. Amphibians lay their eggs in the water in lakes and ponds after the ice melts. The babies will hatch out and begin to grow and develop. At this stage they take in oxygen through **_gills**_____. As they grow, their bodies change to suit life on land, though most amphibians are never far from a wetland environment. They develop legs and **_______**. Even amphibians that spend much of their adult lives on land, like the **_______**, will return to the water to mate and lay eggs. Amphibian eggs are soft and jelly-like and very fragile. They cannot survive outside of their wet environment.

Amphibians are _______cold _____-blooded and will spend the winter months sleeping in a hibernation state called ________. When the days grow short, they will bury themselves in the mud at the bottom of their pond or lake. All winter, they will sleep and take in the _________ they need from the water through their skin. Some land dwelling amphibians, like spring peepers, tree frogs and wood frogs spend the winter under the dead leaves on the forest floor. The ________ cover helps keep them warmer. These animals may also go through chemical changes to keep their bodies from freezing, where their ________ converts chemically to resemble anti-freeze!

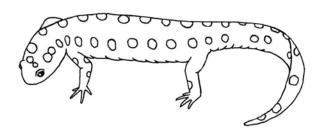
Because amphibians spend so much of their time in wet habitats they are very sensitive to environmental threats like <u>acid</u> rain and water pollution. Even small changes in the <u>pH</u> (acidity) of their lakes and ponds can affect how many eggs will hatch and survive. In some of their habitats, amphibian populations have dropped dramatically.

acid	oxygen
backbone	рН
blood	salamanders
cold	snow
frogs	toad
gills	torpor
lungs	-

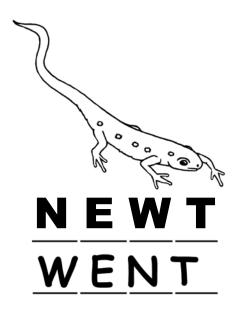
Unscramble the Names of These Common Amphibians







SALAMANDER MANREALSAD



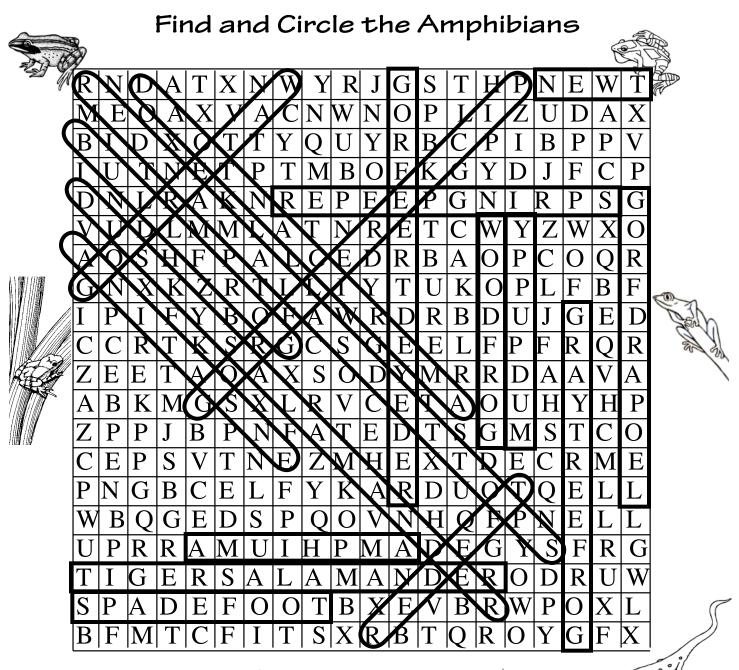




BULLEROG BLOGRULF



ROOFDOWG

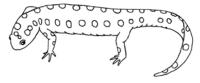


√AMERICAN TOAD √AMPHIUMA √BULLFROG √DUSKY SALAMANDER √ENSATINA √GRAY TREE FROG √GREEN FROG √LEOPARD FROG √MUDPUPPY √NEWT √PICKEREL FROG √RED EFT √RED EYED TREE FROG √SPADE FOOT





www.exploringnature.org



©Sheri Amsel

Practice Habitat Survey - Wetland

Look over the wetland illustration on the next page and list all the species you can find. Break them down by group, if you can (e.g. amphibians, reptiles, fish, birds, insects, mammals, plants, etc.) or just list them.

Age: 3-8th grade

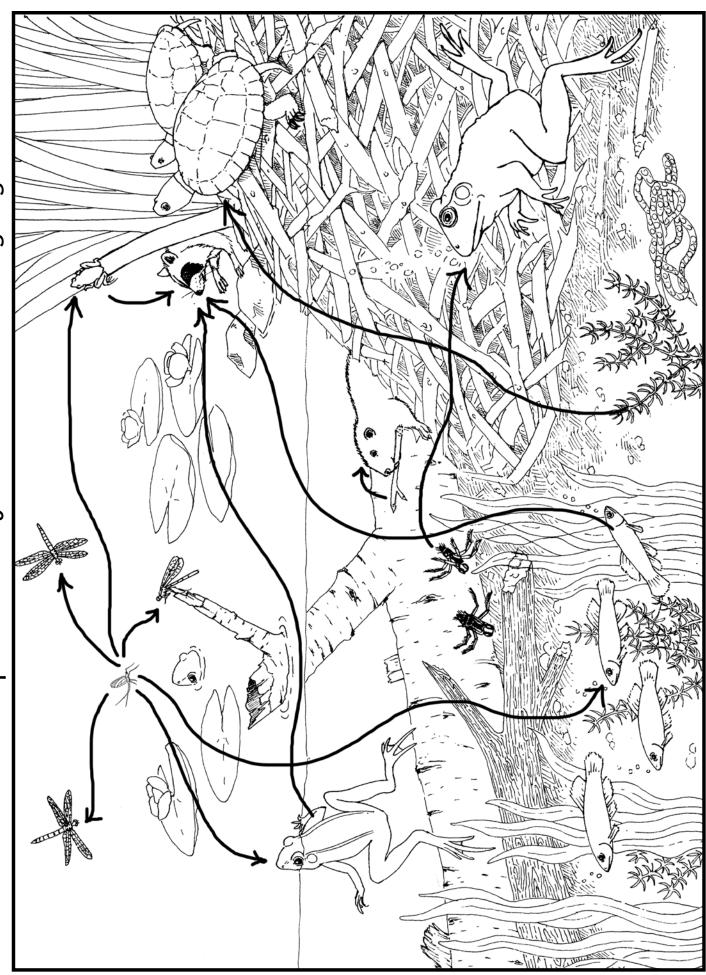
Age: 3-5th grade list	Age: 6-8th grade list				
List of living things:	List of things broken down by group (Class):				
frogs	Amphibians -	- bullfrog,			
fish		frog (green?),			
dragonflies		spring peeper,			
raccoon		frog eggs			
beaver	Insects -	damselfly,			
turtles		dragonflies,			
lily pads		backswimmers			
waterbugs	Reptiles -	painted turtle			
frog eggs	Mammals -	beaver,			
		raccoon			
Non-living things:	Fish -	fish			
sticks	Plants -	cattails,			
logs		pond lilies			
rocks	Abiotic thing	s:			
water	rocks, sand, v	vater, air			
	sticks and log	gs (organic matter, but non-living)			

Follow Up:

1. Can you see any animal signs (things made by an animal)? beaver lodge

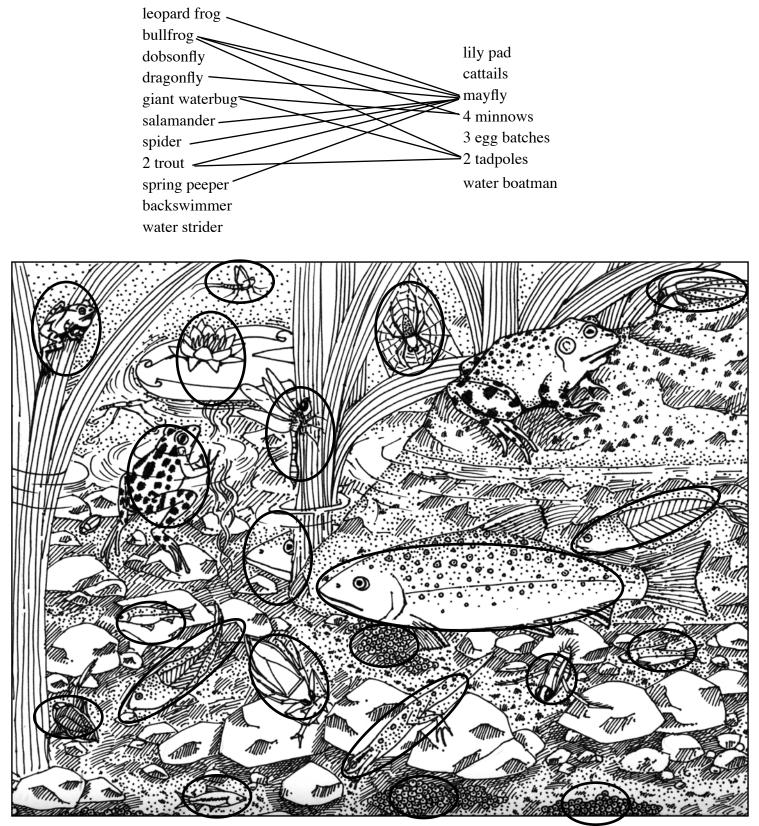
2. From the species in this picture, can you see what might form a food web (animals eating plants or other animals)? Make the drawing into a foodweb by drawing arrows to the animals from their food source (plant or animal).





Hidden Habitat - Wetland Search

Wetlands provide important habitat for amphibians, reptiles, fish, birds, insects and other animals. Search this wetland to find the hidden wildlife there. Circle or color what you can find from the list below and then match the animals to their foods. Not all the things on the right are edible, but many animals (on the left) share the same foods (on the right).



Wild Science Read and React Activities

Reaction Quiz

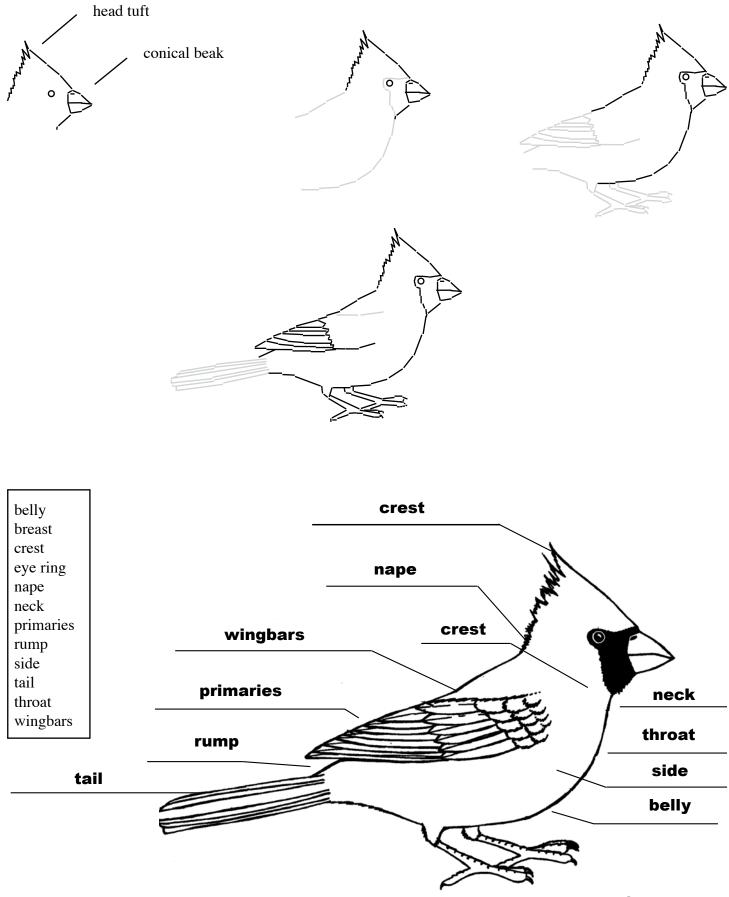
Birds – Class Aves

Birds are in a group – or *Class* – of animals called *Aves*. They are vertebrates, which means they have a backbone _____. Like mammals, they are _____ blooded and most take care of their young, feeding them until they are old enough to find their own food. They do not have live young, like mammals, but lay _____eggs _____. Most birds build some kind of _____est in which their eggs are laid and young raised. They have **feathers** instead of hair or fur and are the only teeth animal group that has them. They have beaks or bills instead of , two feet and two wings instead of front limbs. They have good eyesight and can see colors. Most birds can fly. They have hollow bones to make their skeleton lighter and large chest muscles for flight. Birds can survive cold temperatures because they have an underlying layer of down feathers that act as thermal insulation, like wearing a down jacket. Male birds are often (but not always) much more brightly colored than females. This is called *sexual dimorphism*. Females are often dull colored as **_____ camoflage** to blend while nesting. Some birds eat meat, like rodents, fish, other birds or carrion (dead animals). Some eat seeds or plants. Many birds travel to a cooler climates for reproducing and summer feeding, then return to migration a warmer climate for the winter. Moving from place to place like this is called _____ _____. Birds sing to attract a _____ mate ____ or mark a territory. Not all birds can fly. Flightless ostrich _____, emu, rhea, cassowary, kiwi, penguins, and others. Flightless birds birds include the nest on the ground. They have developed other ways of defending themselves from predators. Some are fast runners . Some are fast swimmers. Some can kick. Some live on Islands where adapted there are no predators, so they don't need to fly. Birds are well for their habitats.

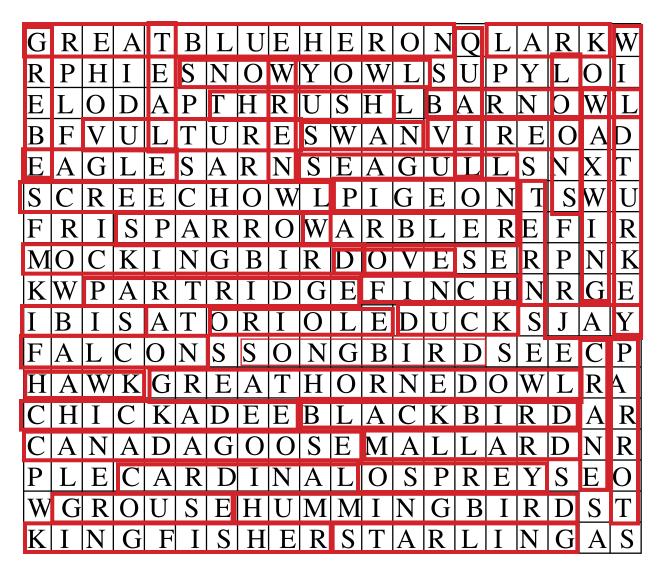
To find more information, pictures and diagrams of specific birds, go to: www.exploringnature.org/db/main_index.php > Birds Vocabulary Choices:adaptedmigrationbackbonenestcamouflageostricheggsrunnersfeathersteethhollowwarmmatewarm

Draw and Name the Parts of a Bird

Knowing these will help with bird identification, as students use field guides to identify birds.



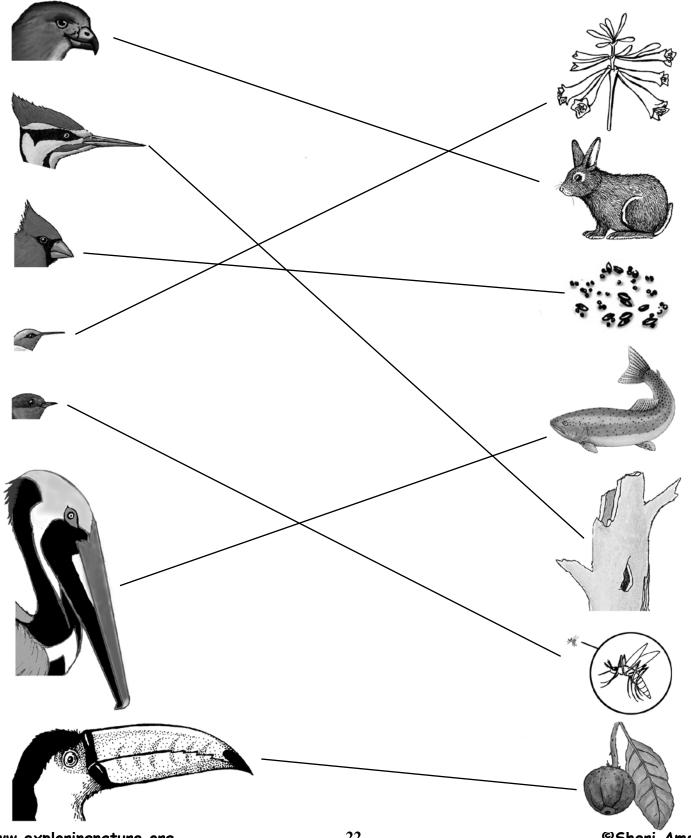
Find and Circle the Birds



√BARN OWL	$\sqrt{\text{GREAT HORNED OWL}}$	√LOONS	√STARLING
√BLACKBIRD	√GREBE	√ORIOLE	√SWAN
√CANADA GOOSE	√GROUSE	√OSPREY	√TEAL
√CARDINAL	√HAWK	√PARROT	√TERN
√CHICKADEE	√HUMMINGBIRD	√PARTRIDGE	√THRUSH
√CRANE	√IBIS	√PIGEON	√VIREO
√EAGLE	√JAY	√QUAIL	√VULTURES
√DOVE	√KINGFISHER	√SCREECH OWI	√WARBLER
√FALCON	√LARK	√SEAGULL	√WAXWING
√FINCH	√MALLARD	\sqrt{SNOWY} OWL	$\sqrt{WILD TURKEY}$
√GREAT BLUE HERON	√MOCKINGBIRD	√SPARROW	√WREN

Match the Birds to the Foods They Eat

Birds eat all kinds of foods from seeds, fruit, and insects to meat. They are physically adapted to the foods they eat. This means that their beak is the right size, shape and strength for their diet. It's structure matches its function. Match the birds' beaks to the right food for which it's structure is adapted.

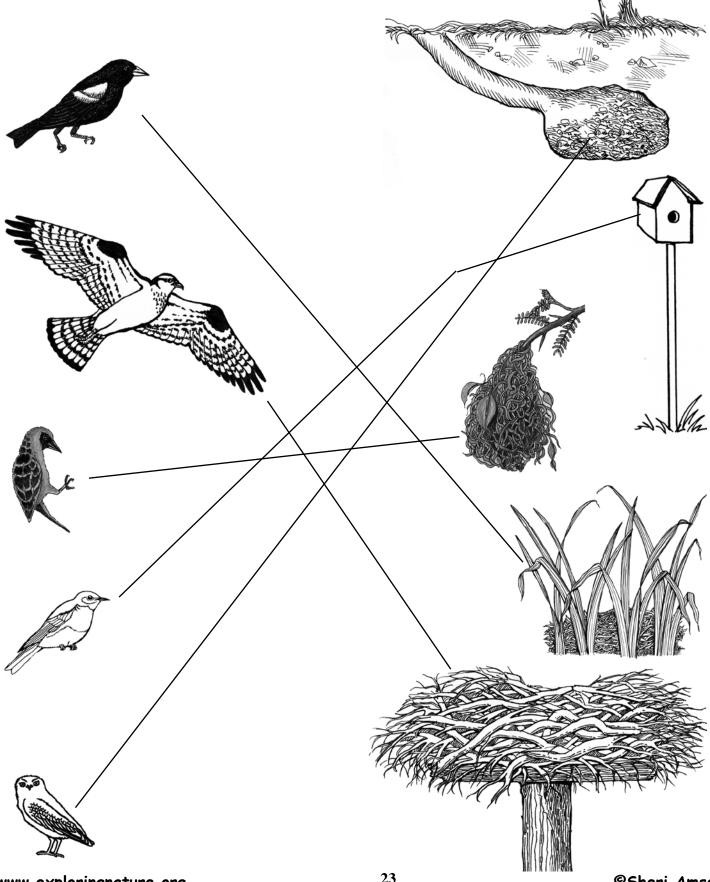


www.exploringnature.org

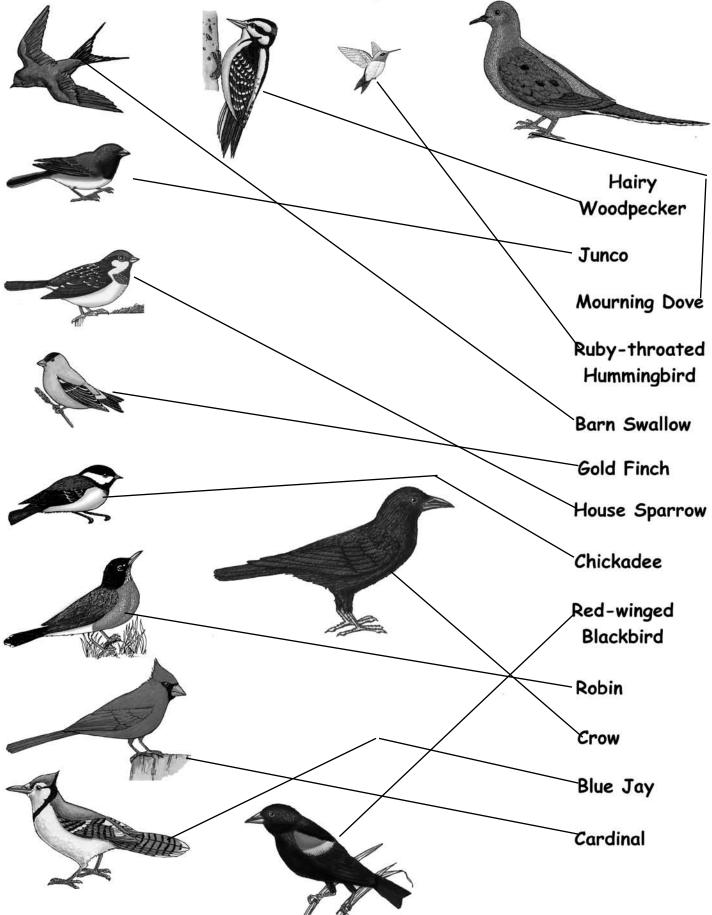
©Sheri Amsel

Match the Birds To Their Nests

Birds build nests that suit their habitat and reproductive needs. This means they use the materials that are available where they breed and that will comfortably protect their eggs and young.



Match these Common Songbirds to their Names



Wild Science Read and React Activities

Read the Essay and Take the Reaction Quiz

Reaction Quiz Page

Insects – Class Insecta

Insects are in a group – or <i>Class</i> – of animals called <i>Insecta</i> . They are invertebrates, which means
they do not have a backbone . Instead they have a hard outer shell, called an
exoskeleton . The insect Class has more than 30 <i>Orders</i> of insects, including beetles, bees,
butterflies, dragonflies, grasshoppers and many more. All insects have certain traits in common. They have three
body parts – a head, thorax and abdomen They have a pair of antennae, two pairs of
wings and three pairs of legs . They often have large, compound eyes .
Insects grow up in one of two ways. Some undergo incomplete metamorphosis. This means that when they
hatch, they look like miniature adults, called nymphs. As they grow, they shed their hard outer layer - their
exoskeleton. Each new size is called an instar . Insects like grasshoppers grow this way.
Most insects, however, go through a complete metamorphosis. This is when the new hatchlings, called
, look completely different from the adults. The larvae feed until they reach a
certain size and then form a protective cocoon or chrysalis Inside they pupate and
their body breaks down and changes into their adult form. Insects like moths and

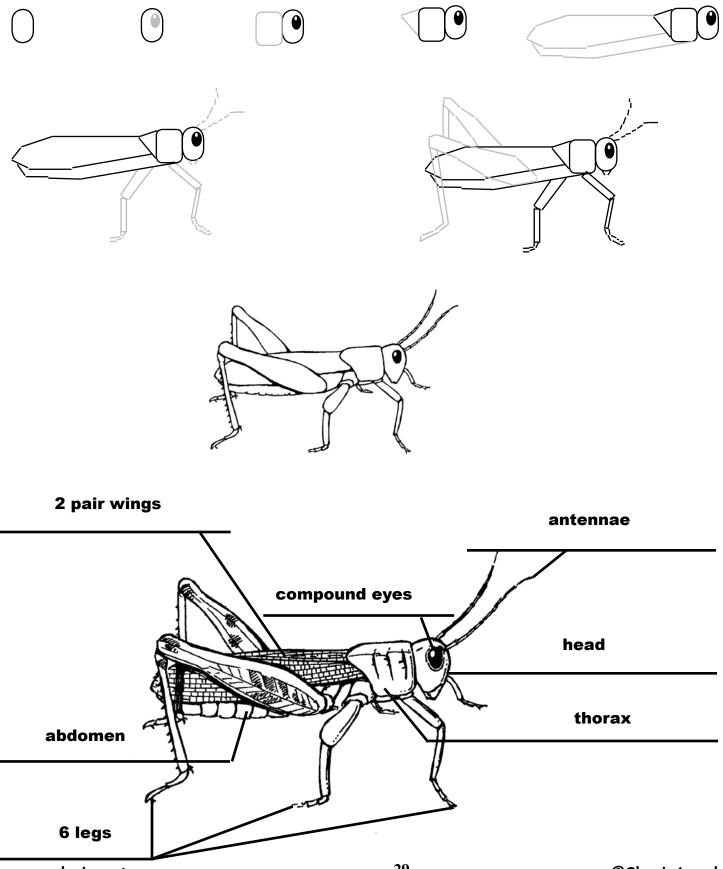
butterflies grow this way.

Though many insects are pests, carry diseases, and eat trees and agricultural crops, they also play important roles we cannot live without. For instance, insects are the main pollinators of plants. Without them we would have no apples, oranges and other fruits. They also are important decomposers of waste. Imagine a world where our waste did not decompose over time. And insects also produce things like honey, wax and silk.

To find more information, pictures and diagrams of specific insects, go to: www.exploringnature.org/db/main_index.php > Insects Vocabulary Choices:abdomeninstarbackbonelarvabutterflieslegsexoskeletoneyes

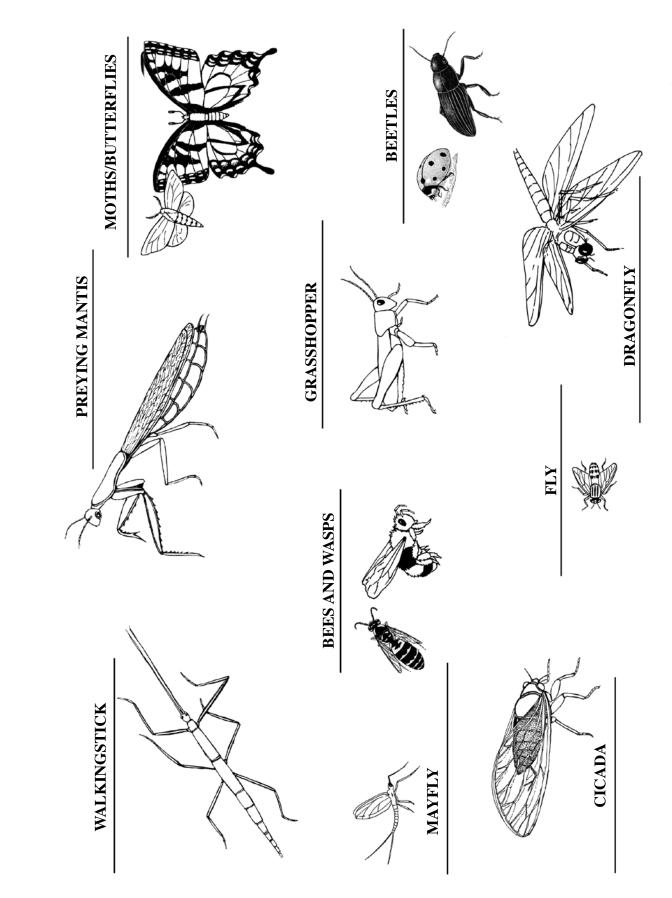
Wild Close Up - Draw a Grasshopper

Draw a grasshopper and label its typical insect body parts.



©Sheri Amsel





Name the Common North American Insects









I

CATERPILLAR DRAGONFLY HORNET MAYFLY TERMITE

ANT

BEE **CICADA FIREFLY KATYDID MOSQUITO** YELLOW JACKET

Ð

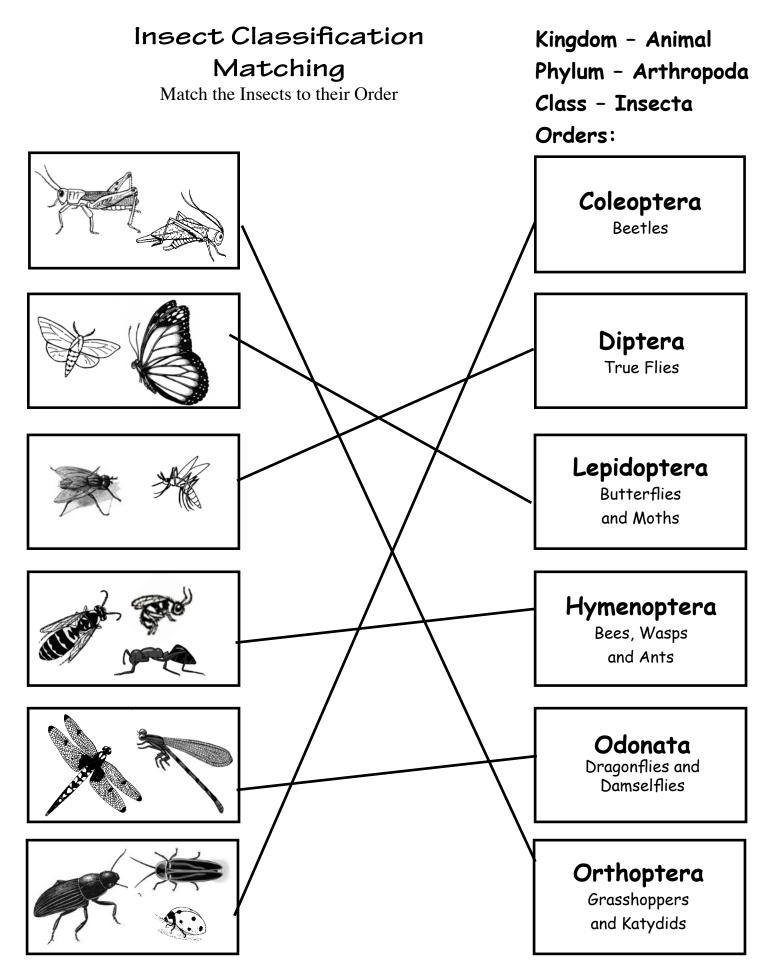
7

BEETLE CRICKET FLY LADYBUG MOTH WALKINGSTICK **BUTTERFLY** DAMSELFLY GRASSHOPPER MANTID **SPITTLEBUG** WASP

F

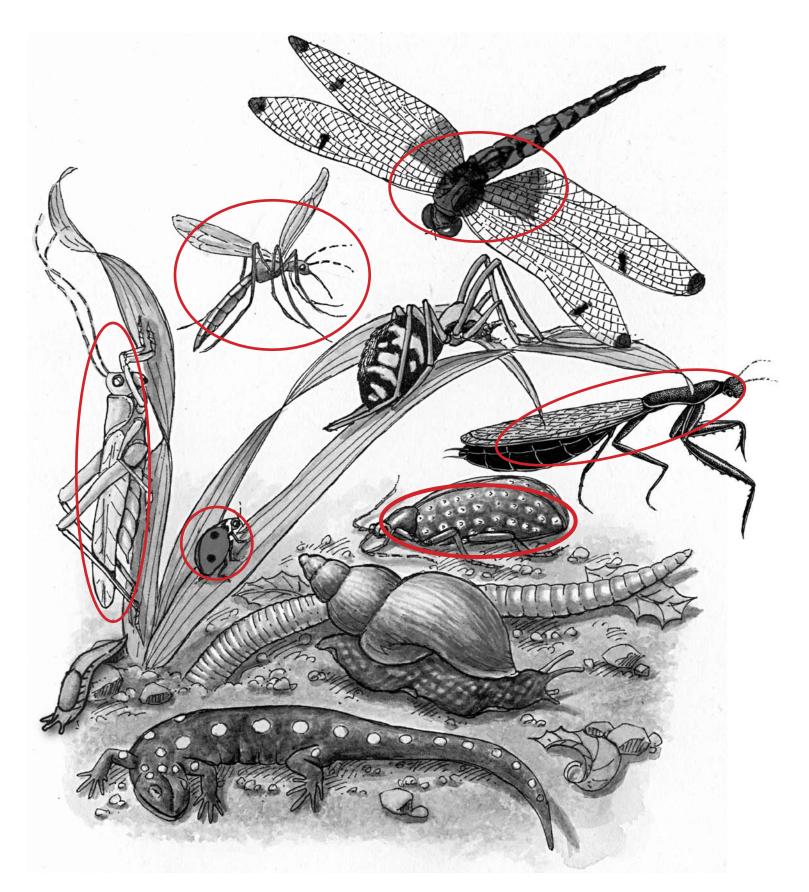
R





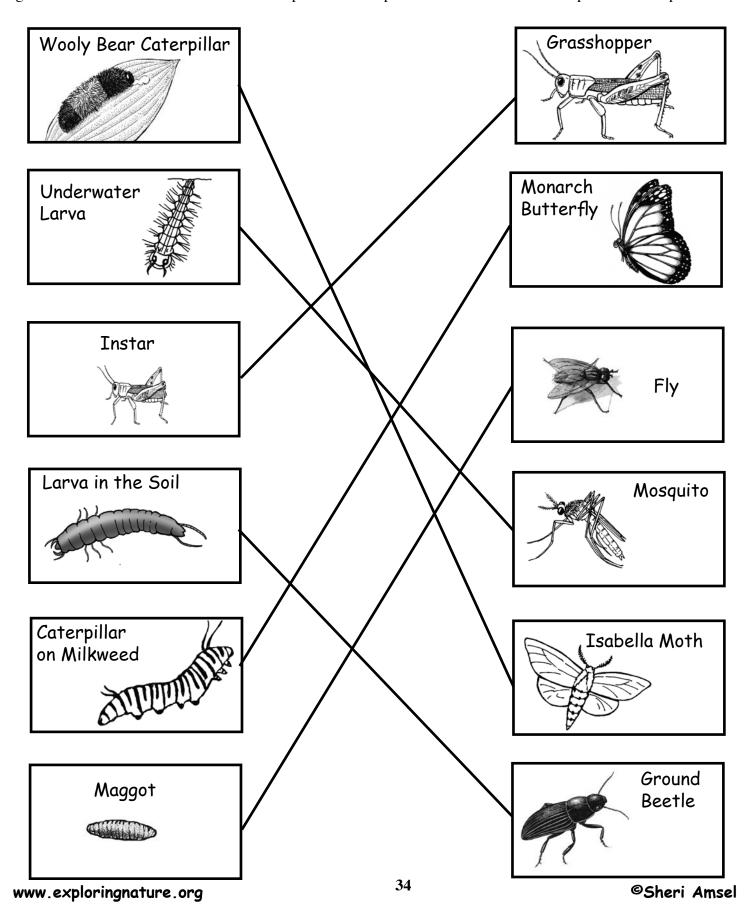
ls it an Insect?

Using the information you have learned about insects, circle the creatures below that are true insects.



What Will I Be When I Grow Up? Insect Development Matching

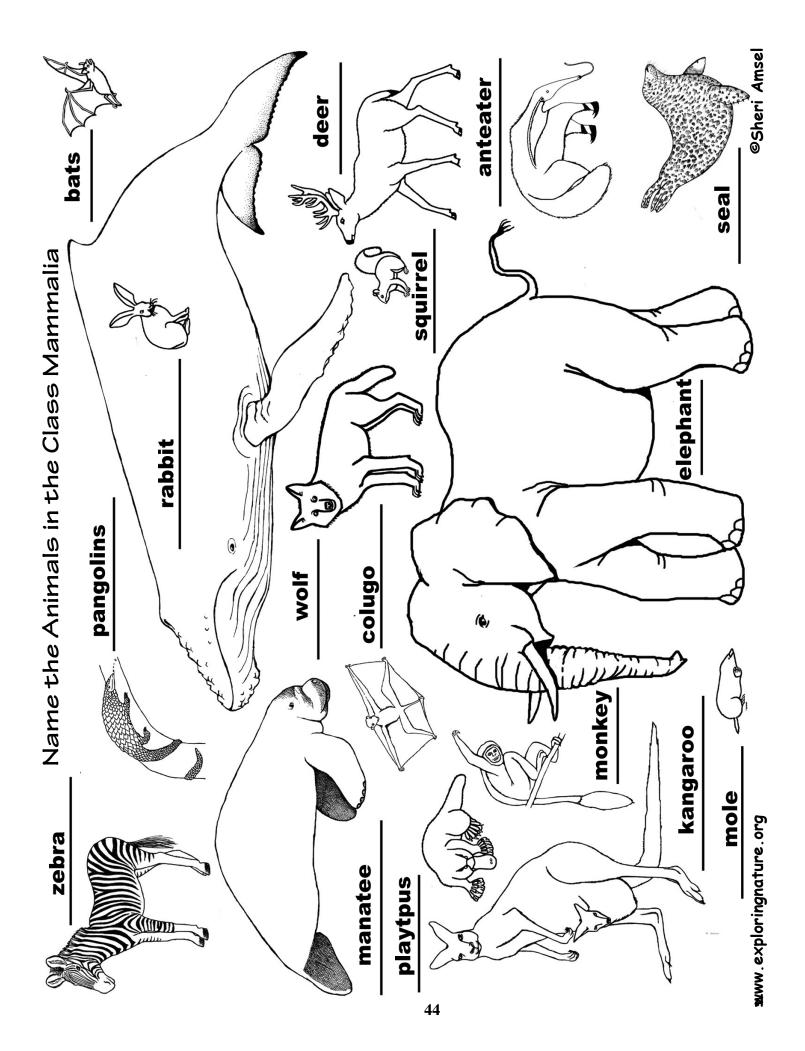
Match the insect larva to its adult form. After learning about insects in the Read and React Activity, can you guess which of the insects below have complete metamorphosis and which have in complete metamorphosis?



Reaction Quiz Page Mammals – Class Mammalia The Mammal *Class* includes everything from mice to elephants, bats to whales and, of course, man. They are vertebrates, which means they have a **backbone**. The wide variety or *diversity* of mammals is what has allowed them to live in any habitat from desert to arctic. Some are active during the day), some at night (**nocturnal**) and some at dawn and dusk diurnal (crepuscular). They live alone (**solitary**) or in great herds (gregarious). They mate for life monogomous) or form harems (polygomous). They eat meat (________, plants (________, plants (________, plants (________, plants (________, plants (________) plants (_______) plants (______) plants (______) plants (______) plants (______) plants (_______) plants (______) plants (______) plants (______) plants (_______) plants (______) plants (______) plants (______) plants (______) plants (______) plants (_ **omnivore**). Mammals come in all shapes and sizes from the pygmy shrew at $\frac{1}{10}$ ounce to the blue whale at more than 300,000 pounds. There are 29 Orders of mammals and though they are diverse, there are a few physical traits that unite them. They are covered with body ______ (except marine mammals – like dolphins and whales). Hair keeps them warm in cold climates and protects them from sunburn and scratches. They have 3 middle ear bones called the malleus, incus, and stapes that improves their hearing. Females have mammary glands that make _____ to feed their young. They protect their young from predators and teach them how to survive. They fill every niche on Earth.

Wild Science Read and React Activities Read the Essay and Take the Reaction Ouiz

To find more information, pictures and diagrams of specific mammals, go to: www.exploringnature.org/db/main_index.php > Mammals backbonemonogomouscarnivoresnocturnaldiurnalomnivoresfurpolygomousherbivoressolitarymilk



ACROSS

- 3. This member of the cat family has tufted ears, a short tail and eats mostly snowshoe hares.
- 4. This group of pouched animals include kangaroos, wallabies, koalas and wombats.
- 5. This group of animals has the only mammals that can fly (not including gliders).
- 7. This gnawing animal is often thought to be a rodent, but is really in a group with pika and hares called the lagomorphs.
- 9. This animal is the only marine mammal that eats only plants and has been called the cow of the sea.
- 10. This largest member of the cat family is found in the rainforests of Asia, India and in Siberia.
- 15. When an animal mates for life it is said to be _____
- 17. A mammal with gnawing incisors, like a mouse or beaver is called а.
- 19. When an animal lives alone, except to breed, it is said to be _____
- 20. This is the largest member of the deer family with giant palmate antlers.
- 21. A warm blooded animal that is born live and fed milk by its mother is a .

 $O^{18}D E N$

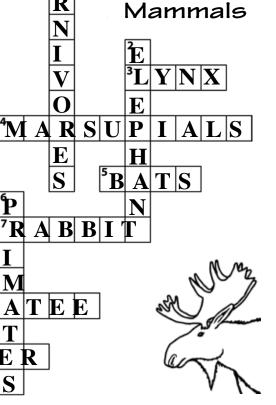
Ι

B

Т

IJ

22. This animal is small and often mistaken for a mouse, but is actually a fierce carnivore that eats mice!



E

S

ATEE

 $|\mathbf{R}|\mathbf{Y}|$

թ

R

B

()

O L I T

IGER

S

B

A

B

¹⁰

Η

ONOGAMOUS

L

E

 $\mathbf{H}\mathbf{R}\mathbf{E}\mathbf{W}$

⁷R

All

About

DOWN

²MOOSE

1. A mammal group with canines for tearing, that includes wolves, tigers, weasels and bears are the ______.

G

0

O

- 2. Alone in its group, this mammal is the largest land animal on Earth.
- 6. This animal group includes monkeys, apes, lemurs and people.
- 8. This is the only member of the deer family where both males and females both have antlers.
- 11. This group of animals has both toothed carnivores and filtering krill eaters.
- 12. When an animal is active at night, it is said to be _
- 13. When a male animal mates with a harem of females it is said to be _____.
- 14. An animal that has a backbone is a
- 16. This bear is a carnivore, but has an omnivorous diet (two words).
- 18. When an animal is active during the day, it is said to be _____

www.exploringnature.org



©Sheri Amsel

\sqrt{B}	Г EAVE OBCA HIPM	Т	$\sqrt[n]{\sqrt{2}}$	/ DEER	ONTA				\sqrt{MIN} \sqrt{MO} \sqrt{MO} \sqrt{MO}	OSE UNTA	IN LI	ON	\sqrt{R}	DTTER ED FO ACCO NOWS	XC	HARI	1 1	/opos /wea /wol	SEL	
	Η	C	Η	Ι	P	Μ	U	N	K	В	Η	Q	L	B	W	Ο	L	F	Ζ	Т
	0	0	S	Р	R	E	Y	С	0	Y	0	Τ	E	S	R	S	В	Η	Е	D
	B	E	A	V	E	R	Т	D	L	S	K	W	Ο	L	V	E	S	W	В	L
	M	Ι	N	K	V	С	R	E	D	P	Ι	N	E	V	В	J	K	L	R	A
	C	0	Τ	Τ	Ο	N	Τ	A	Ι	L	R	Α	B	В	Ι	Τ	L	E	А	N
	R	В	G	Η	Ο	R	N	E	Т	Ν	E	S	Т	R	A	S	D	E	E	R
	G	R	A	Y	S	Q	U	Ι	R	R	E	L	G	D	E	R	Т	Ο	W	L
	A	A	F	R	G	Η	Η	K	E	R	Т	Y	Ο	Ι	Ο	Т	Т	E	R	A
	N	C	F	R	G	Μ	0	U	N	Т	А	Ι	Ν	L	Ι	Ο	Ν	Ο	L	В
	S	C	В	G	С	W	W	D	F	R	T	Y	D	K	L	Μ	M	Р	L	Y
	E	0	Α	Η	Ι	E	K	A	D	E	E	E	E	В	K	0	M	Ο	0	S
	R	0	T	K	N	A	V	С	X	D	В	0	В	С	A	Т	Т	S	W	Т
	Μ	Ν	N	Η	Т	S	D	S	С	F	E	R	R	В	V	G	F	S	T	B
	V	V	P	С	G	E	J	Ι	K	<u>D</u>	<u>P</u>	Μ	Ο	U	S	E	Т	U	A	D
	Т	V	Η	Η	U	L	Ν	Ο	Ι	Х	N	U	D	R	Μ	J	K	Μ	Ι	Ζ
	V	G	F	S	N	0	W	S	Η	Ο	Е	Η	Α	R	Е	Ι	0	S	L	Y
	M	0	0	S	E	V	С	0	Y	0	Т	E	Т	R	A	С	K	S	Т	Ι
a	5							-	-		- destant						4			

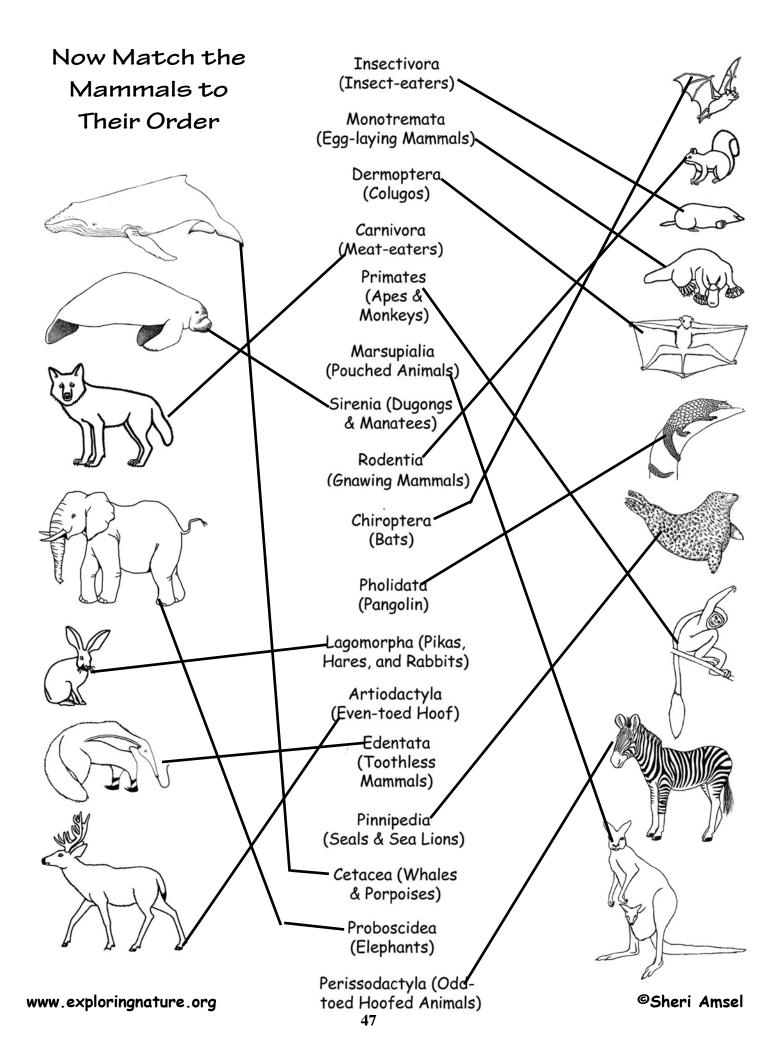


www.exploringnature.org



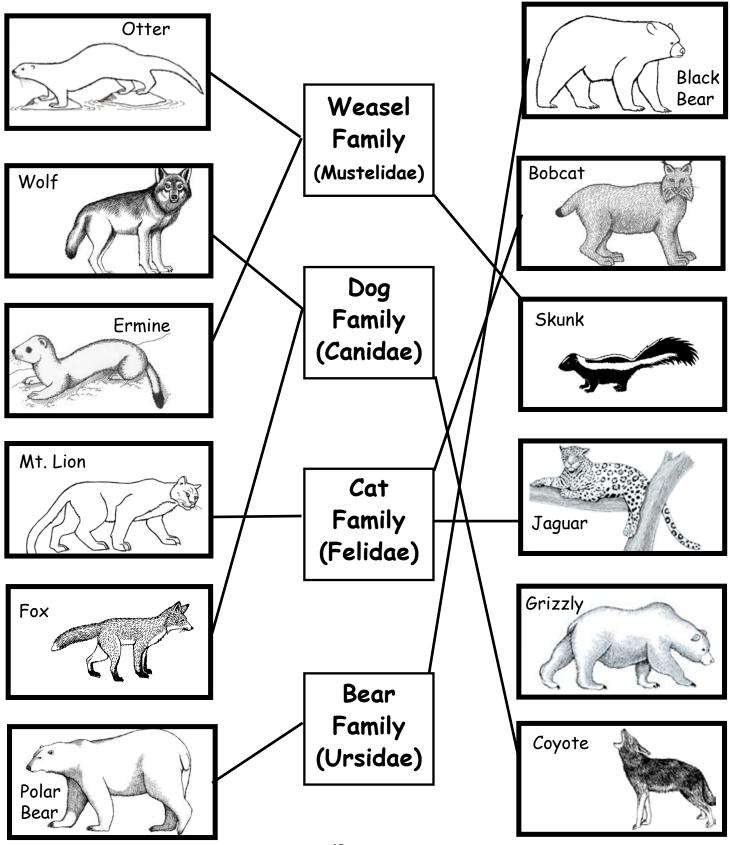
[©]Sheri Amsel

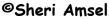
Find and Circle the Mammals \sqrt{MINK}



To Which Family Do I Belong? Classification Matching

The Order Carnivore has many distinct Families of animals. Draw a line from each Carnivore to its correct Family.





Wild Science Read and React Activities Read the Essay and Take the Reaction Quiz Page Natural Selection and the Peppered Moth

Reaction Quiz Page

Natural selection is one of the ideas suggested by Charles Darwin to explain ________. All living things "*inherit*" traits from their parents. In humans, a *trait* can be hair color or height. In birds it can be feather colors, beak shape or the strength of its song. In insects it can be body color or wing shape.

If one (or many) of these **traits**, which they inherit from their parents, helps them survive longer, so that they can have more offspring of their own, with those same traits – they are selected for survival. This means that over many generations, there will be more and more individuals like them in their

__population_____

Here is a simple of example. In the early 1900s, **coal** -burning was common in London and the air was thick with pollution. Coal smoke blackened the trees until their bark was dark brown. The peppered moth was a speckled brown moth that blended into the dark tree bark perfectly. Then in 1956, London passed a clean **air** act and coal was banned in the city. Smokestacks were made

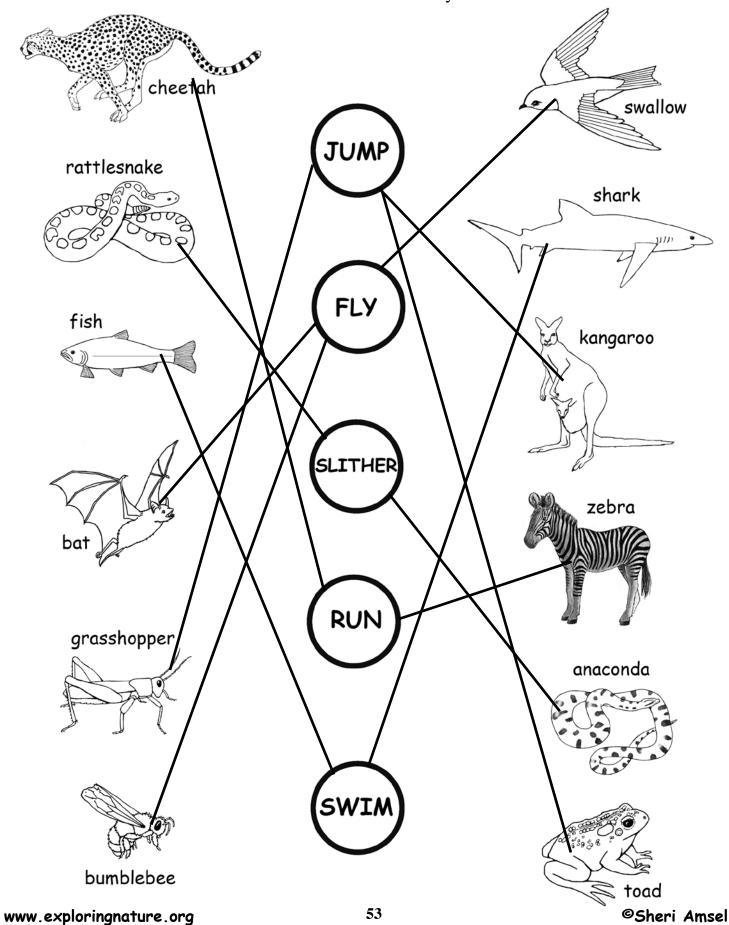
to get pollutants further out into the atmosphere. Within ten years, the trees, **talller** once brown from coal smoke, began to take on their natural light-colored bark. As the trees got lighter, the brown peppered moths stood out against the bark and were easy targets for hungry ______birds_____. Lighter moths, however, blended in and survived to lay ______eggs_____. Over many generations, which for insects can be just a couple of years, all the peppered moths were lighter in color.

This is how **natural selection** works, though in mammals and other vertebrates it takes much longer for traits to spread throughout a populations. This physical change is also called

Vocabulary Choices:			
adaptation	evolution		
air	population		
birds	selection		
coal	taller		
eggs	traits		

Locomotion

Match the animals to how they move.



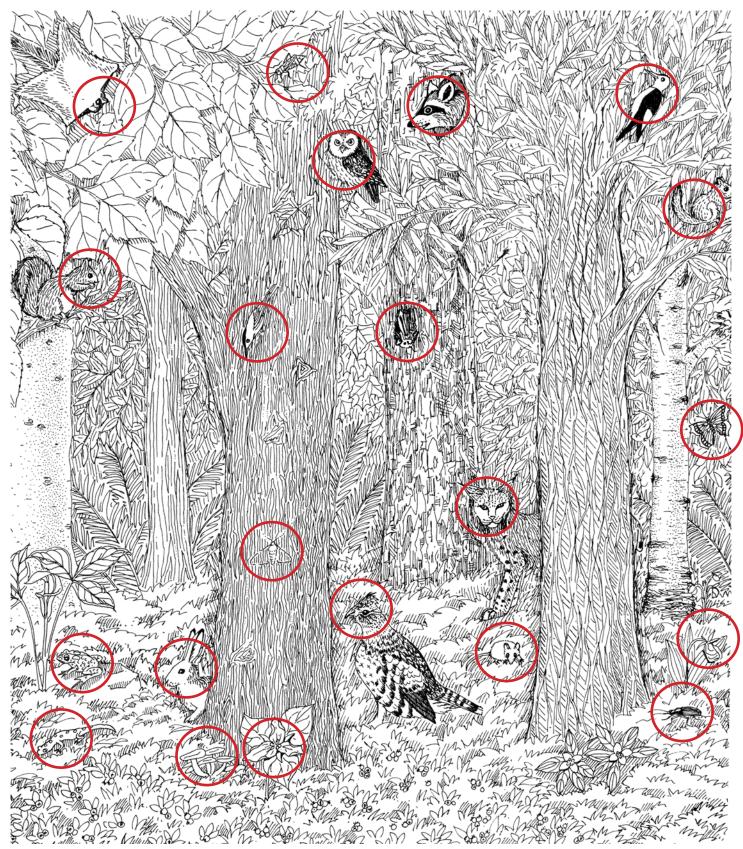
Wild Ideas - The Structure and Function of Survival

Now that you have thought about how animals move, can you match some other "adaptive traits" that might help these animals collect food, catch prey, escape predators or otherwise survive in their habitats? Write the letters of the adaptive traits next to the animals that have them.

	cheetah	L, M, O, R, U	A. ability to coil, spring and bite	9
Core Core	rattlesnake	A, B, C, E, G, I, S	B. camouflage to hide in plain si C. has many young (but little pa	
	fish	B,C	D. echolocation for "seeing" in t	he dark
	bat	D, G, H, L, Q	E. heat sensor (for sensing prey) F. hollow bones to reduce weight	
	grasshoppe	r B, Q, R	G. makes loud sound to warn of H. nocturnal	f intruders
	bee	G, K, Q, U	I. poisonous bite	
	swallow	F, L, Q, R, T	J. powerful kick K. painful sting	
Jun of	shark	B, C, M, R, U	L. protects young M. sharp teeth for tearing flesh	
J.	kangaroo	B, H, J, L, O, Q, R	N. strong muscles for squeezing O. long tail for balancing body v	
BARNO	zebra	B, J, L, Q, R	P. toxin on skin that tastes bad	
ĬŢŢ	anaconda _	B, C, E, H, N, S	Q. travels or lives in a group for R. very fast speed	safety
	toad	B , C, P	S. unhinged jaw for swallowing	large prey
www.explori	ngnature.org		T. protects nest U. powerful sense of smell 54	©Sheri Amsel

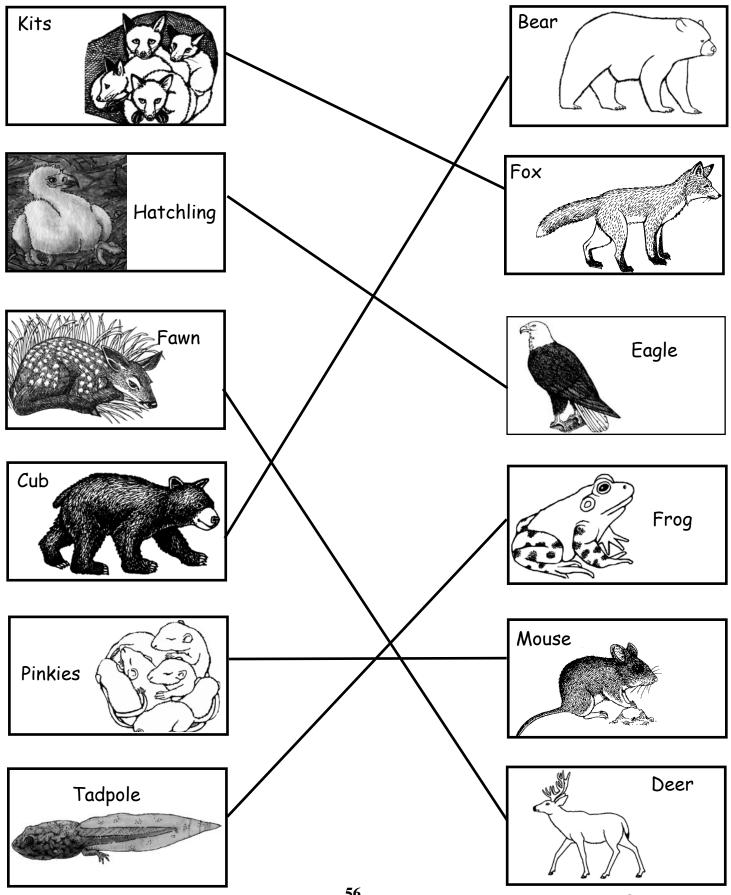
Circle the Forest Animals and Plants

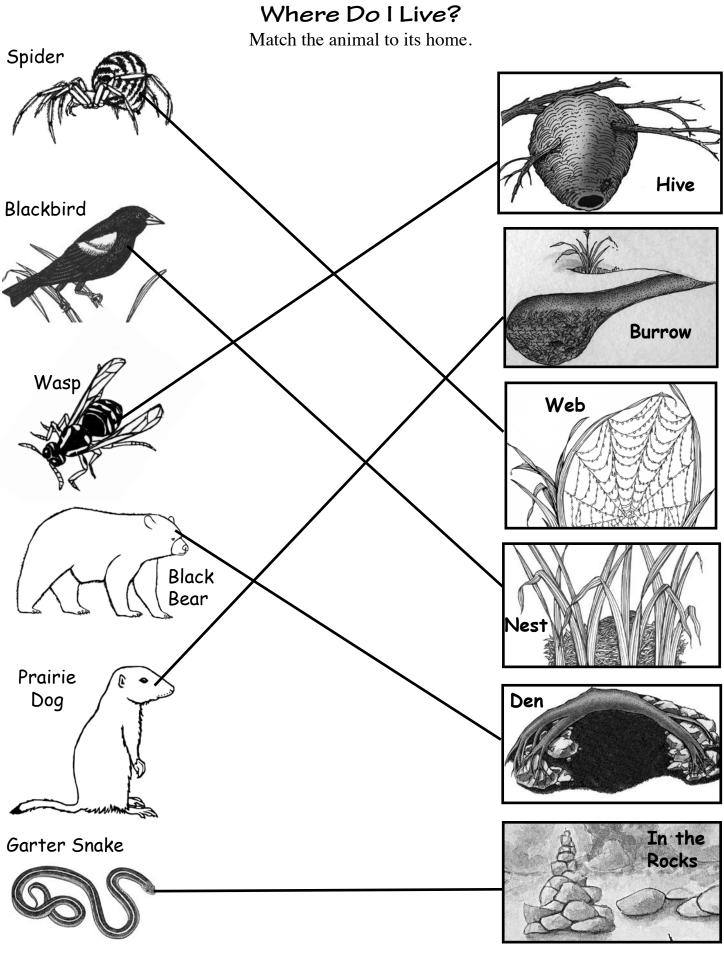
Deciduous forest habitats are home to many of our common mammals, birds and insects. Find the mouse, beetle, bobcat, butterfly, ladyslipper, treefrog, red, gray and flying squirrels, woodpecker, bat, raccoon, saw-whet owl, mushrooms, trillium, toad, katydid, atlas moth, nuthatch, snowshoe hare, and spotted salamander.



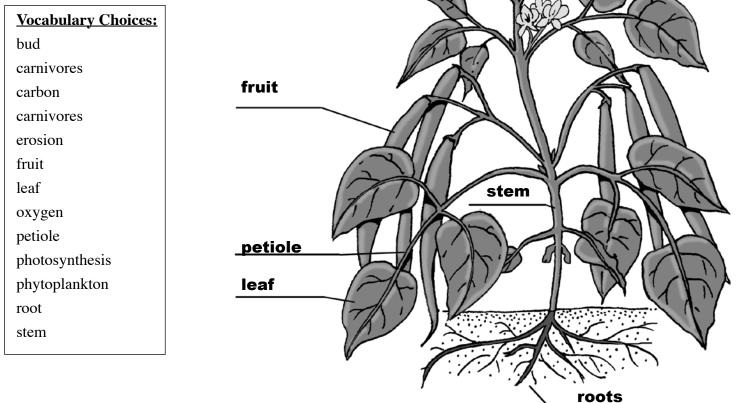
What Will I Be When I Grow Up?

Match the baby animal to its adult form.

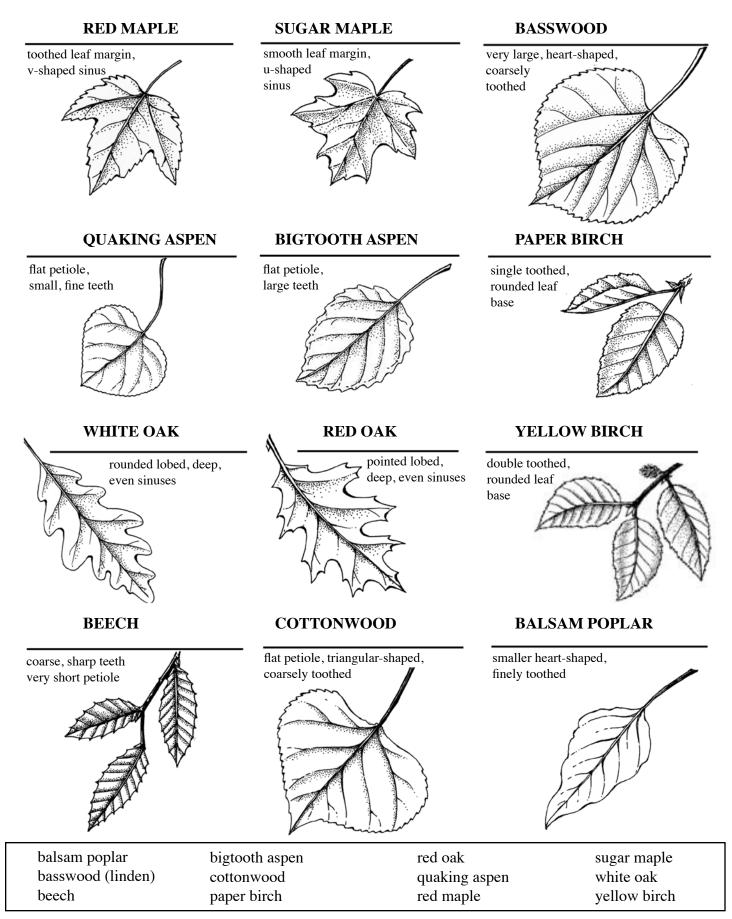




Wild Science Read and React Activities Read the Essay and Take the Reaction Quiz The Importance of Plants **Reaction Quiz Page** Green plants may be be the most important living things on Earth. This is because they make their own energy using sunlight in a process called **photosynthesis** . They store the extra sugars in their stems, roots, seeds or fruit. Animals then eat them and the energy is passed on. Even carnivores _____ which eat only animals are still getting the energy from plants as it passes to them through their herbivore prey. In this way plants feed all the animals on Earth. oxygen Another important job that plants do is to release _____ _____ during the process of photosynthesis. From the Earth's vast forests to the _____ phytoplankton coating the oceans, all green plants take in **_____ carbon** _____ dioxide and give off oxygen as they make energy. This allows all the other organisms on Earth (including us) to breathe. Plants also root in the soil which helps to keep the planet's topsoil in place and prevent erosion _____. There is no doubt about it without plants life on Earth as we know it would not exist. Have you thanked a tree today? bud



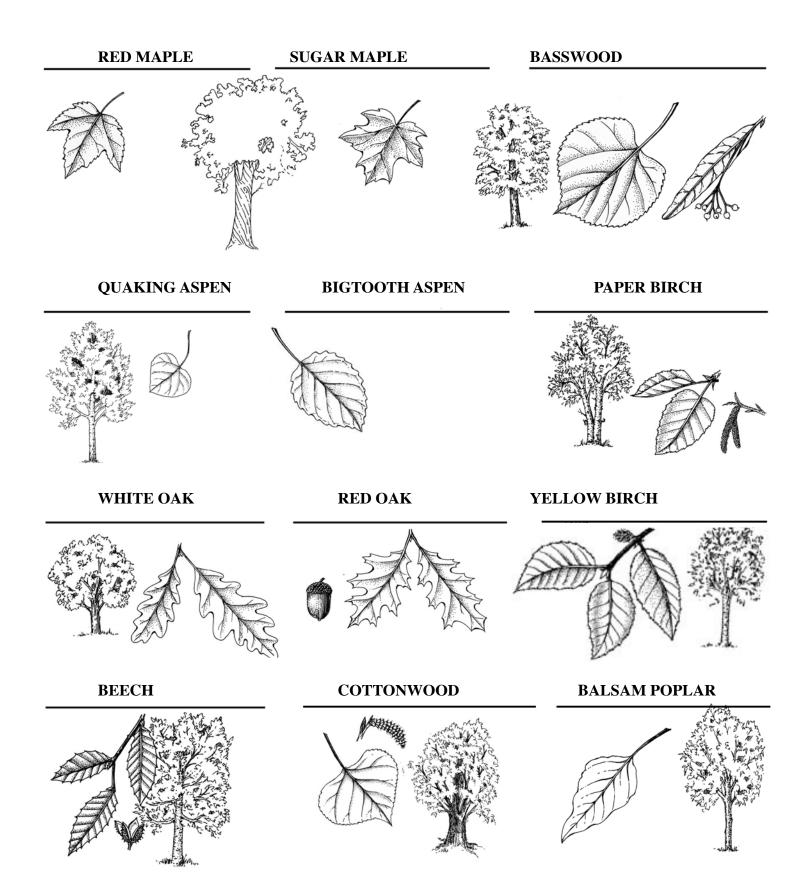
Name the Tree by its Leaf Shape



www.exploringnature.org

©Sheri Amsel

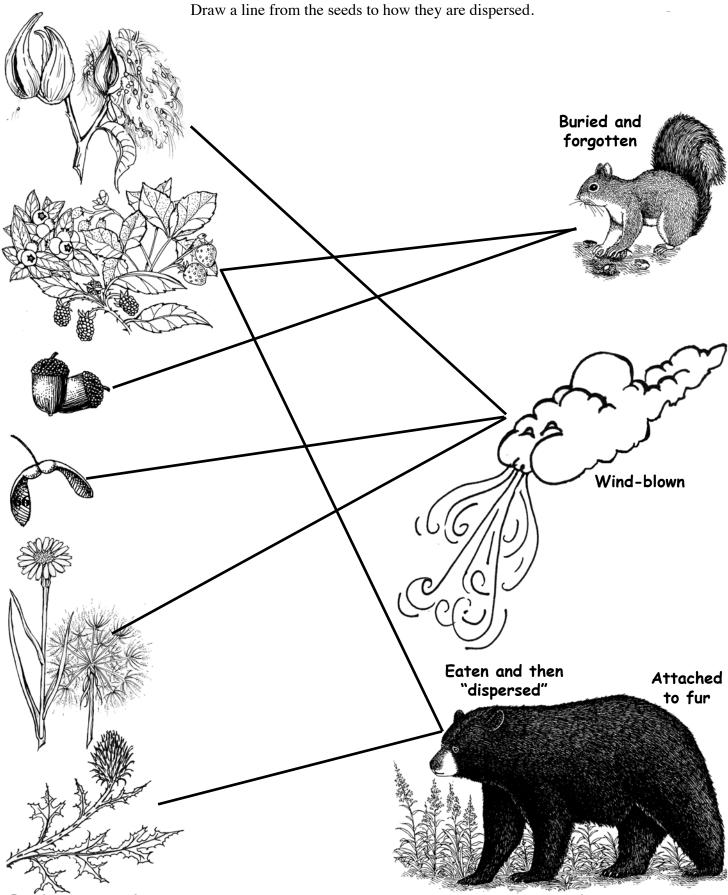
Name These Common Deciduous Tree





Seed Dispersal Matching

Plants have adapted some pretty amazing ways to get their seeds spread out into the world.



www.exploringnature.org

©Sheri Amsel

Wild Science Read and React Activities

Read the Essay and Take the Reaction Quiz

Reaction Quiz Page

Food Webs

Energy flows through an ecosystem as one organism eats another. This is a *food* _______. An example of this is a hawk eating a mouse eating a caterpillar eating a leaf. Every organism in a food chain is said to be on one feeding level or _______ *level*. The first trophic level is all plants. Plants make their own food via _______ *photosynthesis* ______ using water, sunlight and carbon dioxide. They are at the bottom of the food chain and feed everything above them. That is why there are more plants than any other living thing. They are the _______.

Animals that eat plants are called ________. They are primary ________. They are primary _______. These include deer, rabbits, mice and voles. Primary consumers are the _________. **second** ________. trophic level. There are fewer herbivores than plants because each needs a lot of plant matter to live, grow and reproduce.

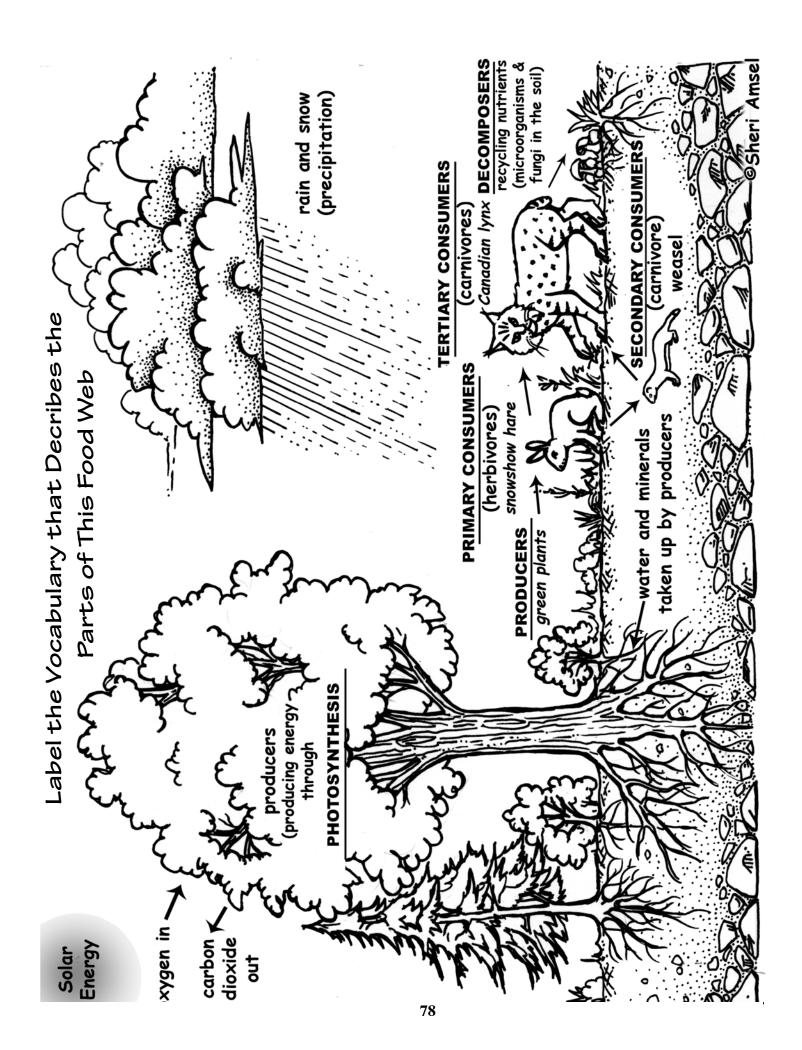
Animals that eat the primary consumers are the *secondary consumers*. Secondary consumers, like weasels, snakes and shrews, make up the *third trophic level*. There are fewer secondary consumers than there are primary consumers because again each needs to eat a lot of the primary consumers to live, grow and reproduce.

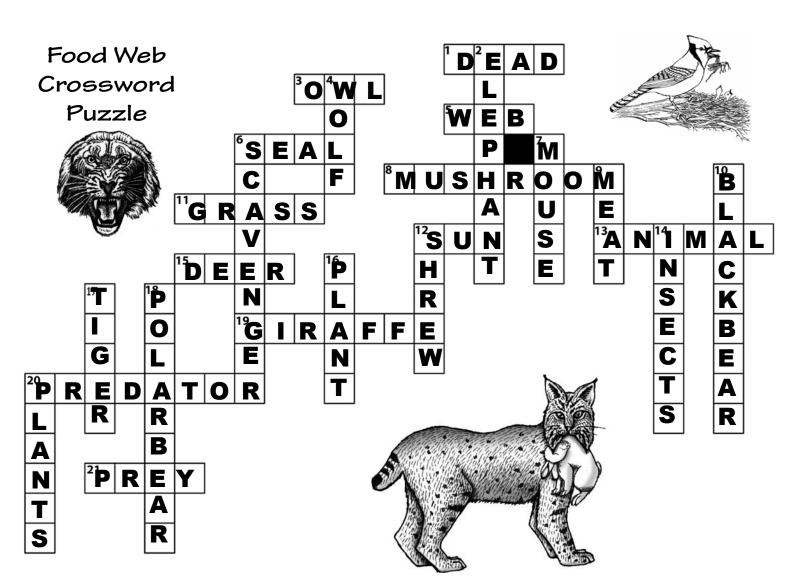
Carnivores, like foxes, coyotes, eagles, and owls, eat primary and secondary consumers and are *tertiary consumers*. They are the ______ *trophic level*. Again, there are fewer tertiary consumers than secondary consumers because each tertiary consumers eats a lot of secondary consumers to live, grow and reproduce.

Decomposers (mushrooms, fungi, bacteria) consume dead matter at all trophic levels.

Because there are fewer animals as you move up the food chain, it is really a food pyramid with the big carnivores needing to eat the most and so having the smallest numbers in the animal kingdom. Because animals eat a wide range of things, the food chain has many overlapping parts, so is really a *food* ______.

<u>Vocabulary (</u>	Choices:	
chain	herbivores	trophic
consumers	photosynthesis	second
decomposers	producers	web
fourth		





ACROSS

1. A decomposer is a fungus or bacteria that breaks animals or plants that are _____.

- 3. A predator than hunts at night on silent wings.
- 5. A map of who east whom in an ecosystem is called a food _____.

6. A smaller carnivore in the ocean with flippers and whiskers.

- 8. An example of a decomposer that is a fungus.
- 11. A producer on which herbivores graze.

12. Photosynthesis - plants make their own food using _____, water and carbon dioxide.

13. A consumer is an _____ that eats what is in its ecosystem.

- 15. A large hooved, herbivore.
- 19. The tallest herbivore on Earth.

20. An animal that chases down and eats another animal.

21. An animal that is chased and eaten by another animal.

DOWN

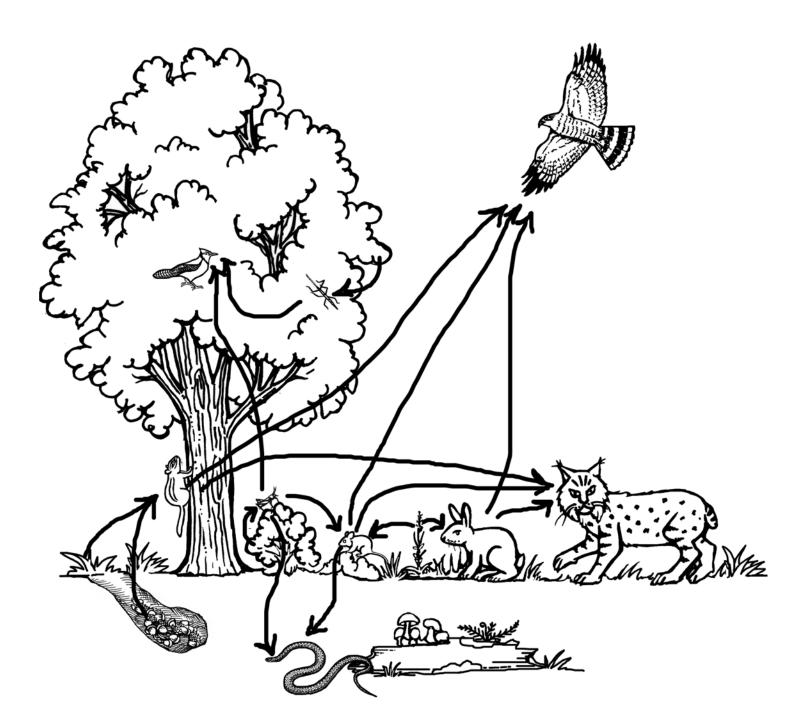
- 2. The biggest herbivore on Earth.
- 4. A carnivore in the dog family.
- 6. An animal that eats whatever it can find.
- 7. A tiny herbivore with a long tail in the rodent group.
- 9. A carnivore is an animal that eats only _____.
- 10. An omnivore in the bear family (2 words).
- 12. The smallest carnivore on Earth.
- 14. An insectivorous plant is a plant that eats

16. A producer that makes its own food through photosynthesis.

- 17. A striped carnivore in the cat family.
- 18. A carnivore in the bear family (2 words).
- 20. A herbivore is an animal that eats only

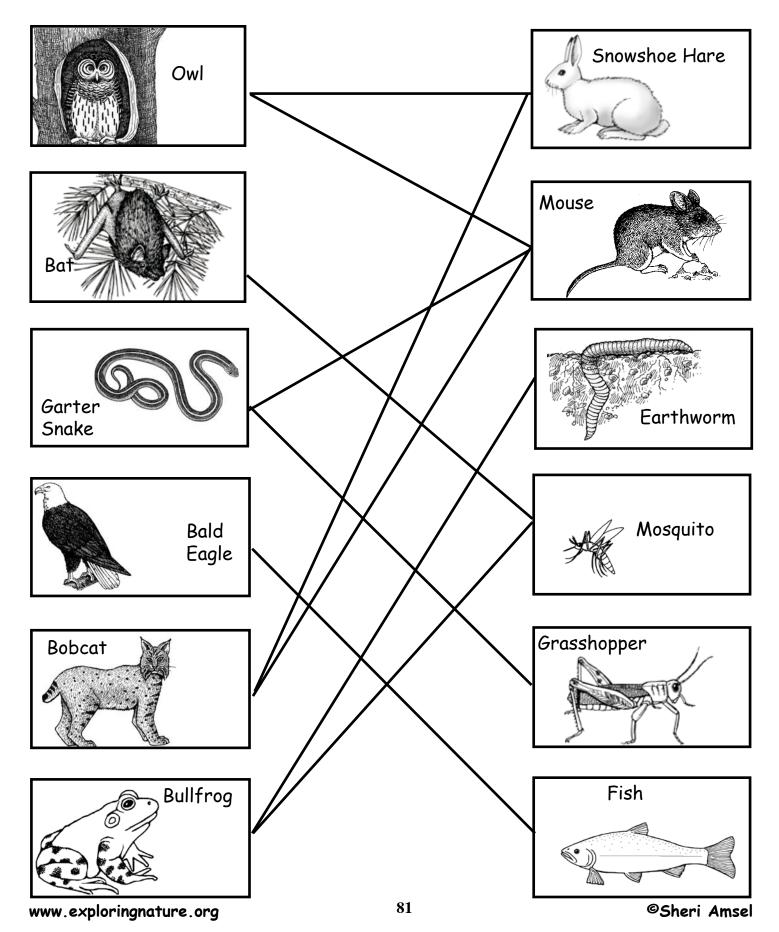
Building a Food Web

Draw an arrow from each plant or animal to the living thing that eats (consumes) it. Your food web should include the acorns, blue jay, chipmunk, grass, grasshopper, hawk, lynx, mouse, mushrooms, rabbit, shrubs, snake, tree, and walkingstick insect. Then label (name) each part of the food web and the trophic level it represents.



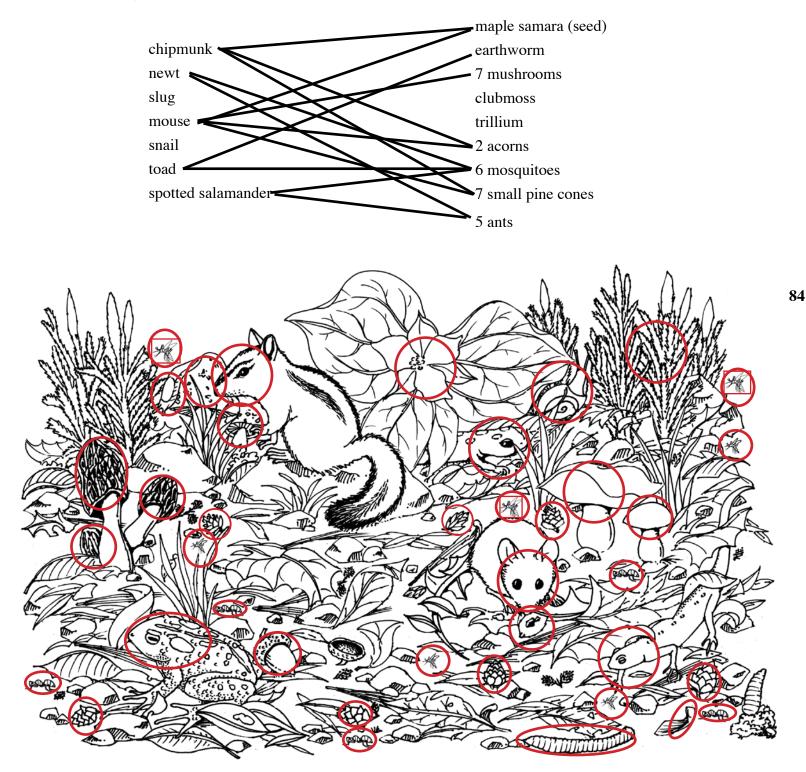
What Do I Eat? Predator Prey Matching

Match the animal to its food.



Hidden Habitat - Forest Floor Search

Is the forest floor is a habitat of its own? It's just dead leaves and dirt right? Actually the forest floor is a rich habitat where small mammals, amphibians, reptiles, insects, plants, mosses, fungi, gastropods (snails and slugs) and many other living things make their homes. Circle or color what you can find from the list below and then match the animals to their foods. (Not all the things on the right are edible, but many animals on the left share the same foods).



Wild Science Read and React Activities

Read the Essay and Take the Reaction Quiz

Reaction Quiz Page

Ecology

Ecology is the study of living things and their relationship to their environment. Each li	ving thing is called
an organism – from an ant to a blue whale. Organisms that are alike – with the same physic	cal appearance,
behavior, and genetic make up are considered to be the same species	. No one knows how
many there are on Earth. There could be as many as 15 million. We have only identified and	d named about 1.5
million so far. Most of the species we have identified are insects	
Many organisms of one species together are called a population	
Not all the individuals in a population are exactly the same though. In a herd of caribou or	a flock of birds there

are some that look or act a little differently from one another. This is called _____ genetic

diversity. Think how differently you look from your sister or brother or the kid down the street. You are all the same species, but can look very differently from one other.

Where a population of species lives is called its ______. This can be just a ditch full of water or a vast forest. Where a species lives throughout the world is called its ______. Some species, like the brown rat, are found all over the world, while others, like the kiwi, may only be found on one island.

Many different populations of species living in one area and interacting, like a herd of deer grazing on a **community** meadow of grass, is called a ______.

Add all the non-living () things around like rocks, water, sun and air	, is called
anecosystem	. This, like a habitat, can be as small as a ditch or as big	as a

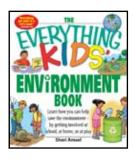
forest. However, a habitat is really where an organism lives, while an ecosystem is what it does.

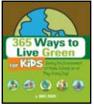
All the ecosystems on Earth make up the **biosphere**

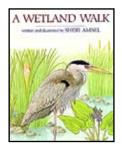
abiotic

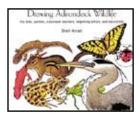
Vocabulary	Choices:	
abiotic	genetic	population
biosphere	habitat	range
community	insects	species
ecosystem		

Other Books by Sheri Amsel













The Everything Kids Environment Book - 130 pages of cool illustrated environmental information, activities, experiments and games. Have fun while saving the planet! **\$8**

365 Ways to Live Green for Kids - 200 pages of environmental activities, experiments and games for at home, school and play. Text only handbook for readers, parents and teachers. **\$8**

A Wetland Walk

Colorful picture book of an adventures exploring a wetland. Fact page at the end. 32 pages. **\$7**

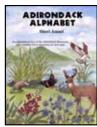
Drawing Adirondack Wildlife - Step by step guide to drawing the most common wild animals in the Adirondacks. 64 pages. **\$8**

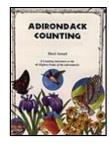
Adirondack Nature Guide Field guide to plants &

animals of the Adirondacks. 120 pages, 87 color, 173 b&w drawings. **\$15**

Vermont Nature Guide Field guide to plants & animals of Vermont. 120 pages, 87 color, 173 b&w drawings. **\$15**











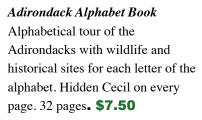


Finger Lakes Almanac

Follow the lives of Adk wildlife throughout the year. 170 pages, illustrated by Amsel. **\$17**

Adirondack Counting Book

Counting the 46 high peaks and the animals and plants found there. Find hidden Cecil and his lost gear throughout the book. 32 pages. **\$7.50**



Biome Mini-Posters on CD 20 full-color, high-resolution, 8.5 x 11" posters with color keys: rainforests, deserts, grasslands, wetlands, mountains, oceans, forests. Print out, and laminate. **\$15**

100 Science Activities on CD Print out 100 high-resolution, illustrated, 8.5 x 11", copy-ready science activities for K-6. **\$15**

Habitat Posters for the Classroom 6 Habitat Posters (8.5x11): Wetland, Grassland, Desert, Forest, African Rainforest and Pond Life. Each comes with a key and species list. **\$15**

To mail in	product orders	- send to:	ENER.P	O Box 8	34. Elizabethtow	n. NY	12932
IV man m	product of delb				, i j Linzao cuito (i j		

Number	Product Description		Price	Total	
			Total		
SHIPPING	FEES: Up to \$16 – \$4.00, \$1	7 and up – \$5.00	Shipping		
			Subtotal		
		NY Resid	dents add 8%		
			TOTAL		
Name		Phone			
Address		City:			
State:	_Zip:	_Email:			
	Payment: MC/Visa	Please make checks payable to: Exploring Nature Educational Resource Order online at: www.exploringnature.org			
Exp. Date:_			or	_	
3 digit V-C	ode (on back):	Call from 8am - 8pm EST			
Signature:_		Tol	lfree: 888-497-3	765	