

# Teachers Guide

Wildlife



Habitat

Food Chains

\_\_\_\_\_ 1 2 3 \_\_\_\_\_  
B e g i n n i n g P r i m a r y



# *Teacher's Guide*

## **Beginning Primary**

This educational resource was originally developed and written by **Joyce Harmon Depenbusch** and designed and illustrated by **Alan W. Baccarella**.

The revision and updating were provided by: *Mary Kay Crall*, *Alaine Neelly*, *Pat Silovsky* and *Roland Stein*.

Illustration and layout by: *Dustin Teasley* and *Stacy Miller*

Review of text by: *Kathy Hodges*, *Marla Harker*, and *Shelby Stevens*

Resource section by: *Erica Nighswonger*

The educational material is dedicated to the children of Kansas. May they develop an awareness and appreciation for Kansas' wildlife.

Funded by hunting and fishing license fees and the Nongame Wildlife Tax Check-Off Program.

---

Kansas Dept. of Wildlife and Parks  
512 SE 25th Avenue  
Pratt, Kansas 67124-8174

---

Reprint permission is granted for educational purposes only. Other usage will require written permission from the Wildlife Education Coordinator, Kansas Department of Wildlife and Parks, Pratt, Kansas.

# Foreword

Dear Educator,

As Kansans, we have been blessed with an environment capable of providing us with the natural resources to enjoy life to its fullest. Our wildlife is one such resource enjoyed by many Kansans. The future of this resource and others will directly depend on an enlightened citizenry which understands and appreciates the practices and commitment needed to insure the quality of these natural resources.

We believe one can nurture within children an environmentally sound attitude. The combination of children's spontaneous interest for living things, our informative materials and resources, and your expertise in teaching and motivating children will assist us in this objective. You, as the instructional leader, are the catalyst; without your commitment the other two remain dormant. We need to care about our young people, their future, and the future of Kansas' natural resources. "Children who care about our earth today can change the world tomorrow."

As part of our commitment to assist educators, the Kansas Department of Wildlife and Parks created the Wildlife Education Service section in 1981. The WES, with its comprehensive resources, is dedicated to instilling an awareness, understanding and appreciation in Kansas' youth of our natural resources, especially wildlife. Together we will make a difference. Assist us by making your fellow teachers aware of what WES has to offer.

Feel free to direct any concerns or questions regarding WES to the Pratt Operational Headquarters. We look forward to working with you and wish you and your students a successful learning experience.

Sincerely,  
The WES Staff  
Kansas Dept. of Wildlife and Parks  
512 S.E. 25th Avenue  
Pratt, Kansas 67124  
(620) 672-5911  
ShelbyS@wp.state.ks.us

*"Never doubt that a small group of thoughtful committed individuals can change the world; indeed, it's the only thing that ever has."*

*Margaret Mead*

# *Introduction*

This wildlife education resource was developed to assist educators in establishing a greater awareness and appreciation in children for their natural environment and Kansas' wildlife. Everyone, especially our children, needs to become more knowledgeable and aware of their bio-physical and cultural environment. We need to increase our sensitivity and understanding of how our behavior and actions affect the ability of our natural environment to maintain and enhance the quality of all life forms.

The materials and resources provided will spark the natural attraction and spontaneous interest children have for wildlife. You, as the instructional leader and motivator, provide the most important component in the nurturing of students to become environmentally enlightened individuals with a caring attitude for all living things. One need not be a wildlife expert to teach children about their environment and wildlife. The most important ingredient for successful presentations will be your enthusiasm and imagination.

These instructional materials are multi-disciplinary, flexible, and will enrich all aspects of your on-going curriculum with minimal preparation or equipment. But, to be effective, the activities and information must become an integrated part of your on-going instruction. The material is appropriate for use throughout Kansas. We encourage you to utilize the out-of-doors as a learning site whenever possible. When outdoors, remind your students they are company in the homes of wildlife and their behavior should reflect it. Technical assistance and resources can be obtained from the Wildlife Education Service Section of the Kansas Department of Wildlife and Parks through the following materials and services.

The Reference Center in Pratt has over 4,000 resources on wildlife and related topics in a variety of formats. Nature's Notebook, a collection of education features from the Kansas Wildlife and Parks magazine, provides educators with a wide variety of wildlife information sheets, hands-on activities and support materials. The On T.R.A.C.K.S newsletter provides information and resources to assist educators in developing a basic understanding and appreciation of ecology in children. Project WILD, Project Aquatic and Project Learning Tree, nationally acclaimed environmental education programs, emphasize basic concepts about our natural resources, wildlife, water and our forests. The learning experiences in their activity guides provide an interdisciplinary, hands-on program for pre-schools to adults. They are also a simple way for educators to gain confidence in using the out-of-doors as an effective learning setting.

# *Mission: We have a go!*

The Curriculum Standards for Science, issued in 2000 by the Kansas State Board of Education, was used to define the desired student outcome for this resource. The general mission statement of the above document indicates the need for students to be prepared decision makers. To develop this skill, students need to become adept at acquiring new knowledge while developing a better understanding and awareness of the technology, economics, and social applications associated with the many problems they will confront throughout their lives.

The enclosed activities emphasize a group-setting approach in encouraging students to become skillful thinkers and problem-solvers. Other components such as curiosity, creativity, perseverance, and flexibility - important in the inquiry and problem solving process- are also fostered in this guide.

The inquiry areas included within this resource are: What Is Wildlife, Introduction to Habitat, and Food Chains and Webs. These areas are connected to one another by using the following themes as organizers: Models, Systems and Interactions, Energy (Matter) Flow and Exchange, and Patterns of Change.

The first area of inquiry, 'What Is Wildlife', encourages students to gather information through direct observation to create a model to identify wildlife and become aware of its diversity.

The second area of inquiry, 'Introduction to Habitat', expands the model to include how wildlife operates within a system (habitat) and interacts with the habitat to obtain their basic requirements -food, water, shelter, and space- needed by all living things.

The last area of inquiry, 'Food Chains and Webs', explores how energy -food/matter- flows within the habitat system through the interactions -predator and prey- of wildlife with the system.

The theme 'Pattern of Change' occurs throughout all three areas of inquiry. Differences in the shape, size, color, and living-patterns of the various forms of wildlife help us to identify wildlife and recognize their diversity.

While studying habitats, it soon becomes apparent there is no one set pattern by which an animal's habitat provides food, water, shelter, and space. These components will vary to best suit the appropriate needs of the individual organism. In 'Food Chains and Webs', the individual organisms can vary considerably, but the basic pattern of energy- transfer in all food chains is the same: producer, plant-eater, meat-eater.

The theme organizers utilized in this guide are similar to those used in the Kansas State Board of Education Curriculum Standards for Science. We have also tried to link the guide's format and objectives closely to those stated in the Curriculum Standards for Science. We do wish to stress the materials and activities are not just science oriented, but can be integrated into a variety of subjects in an on-going curriculum.

The Kansas Department of Wildlife and Parks realizes the environmental issues and decisions which the young people of today will face requires a well informed public. It will be up to the education community to achieve environmental literacy; a combination of factual knowledge with a motivating concern resulting in the tendency to take some form of action to resolve the problem.

Your role as an educator is a vital link in achieving this goal.

# Primary Resources

## KANSAS ORGANIZATIONS

---

**Agriculture in the Classroom**  
**Kansas State University**  
124 Bluemont Hall  
Manhattan, KS 66506  
(785) 532-7946

**Audubon of Kansas**  
813 Juniper Dr.  
Manhattan, KS 66502-3180  
(785) 537-4385

**Blue River Watershed Assoc.**  
10312 W 49th Place  
Shawnee, KS 66203-1618  
(913) 288-3500

**Botanica - The Wichita Gardens**  
701 N Amidon  
Wichita, KS 67202  
(316) 264-0448

**Brit Spaugh Zoo**  
P.O. Box 274  
Great Bend, KS 67530  
(620) 793-4160

**Chaplin Nature Center**  
278124 27th Dr.  
Arkansas City, KS 67005  
(620) 442-4133

**Children's Museum of Wichita**  
124 S Broadway  
Wichita, KS 67202  
(316) 267-3844

**City of Overland Park**  
**Arboretum & Botanical Gardens**  
8500 Santa Fe Dr.  
Overland Park, KS 66212-2866

**Clement Stone Nature Center**  
7240 W. Tenth ST  
Topeka, KS 66615  
(785) 273-5806

**Dillon Nature Outdoor Ed Center**  
3002 E. 30th  
Hutchinson, KS 67501  
(620) 663-7411

**Dych Arboretum of the Plains**  
**Hesston College**  
P.O. Box 3000  
Hesston, KS 67062  
(620) 327-8127

**Emporia Zoo**  
P.O. BOX 928  
South Commercial St.  
Emporia, KS 66801  
(620) 342-5105

**Materials Center**  
**Environmental Ed Curriculum**  
**Education Division**  
**Farrell Library K-State University**  
Manhattan, KS 66502  
(785) 532-6516

**Ernie Miller Nature Center**  
909 N. K-7 Hwy.  
Olathe, KS 66061  
(913) 764-7759

**Flint Hills RC&D Area, Inc.**  
P.O. Box 260  
Strong City, KS 66869  
(620) 273-6321

**Grassland Heritage Foundation**  
P.O. Box 394  
Shawnee Mission, KS 66201  
(913) 262-3506

**Great Plains Nature Center**  
6232 E. 29th St. N  
Wichita, KS 67220  
(316) 683-5499

**Fick Fossil & History Museum**  
700 W 3rd  
Oakley, KS 67748  
(785) 672-4839

**Kansas Academy of Science**  
1930 Constant Ave.  
Campus WEST  
Lawrence, KS 66047  
(913) 864-2700

**KS Association for Conservation & Environmental Education**  
2610 Claflin Rd.  
Manhattan, KS 66502  
(785) 537-7050

**KS Assoc. of Conservation Districts**  
522 Winn Rd.  
Salina, KS 67401  
(785) 827-2547

**KS Bass Chapter Federation**  
816 Capitol View Dr.  
Topeka, KS 66617  
(785) 264-1364

**KS Biological Survey**  
**Foley Hall**  
2101 Constant Ave.  
Lawrence, KS 66047-3759  
(785) 864-1500

**KS Department of Wildlife & Parks**  
512 SE 25th Ave.  
Pratt, KS 67124  
(620) 672-5911

**KS Geologic Survey Campus WEST**  
**University of Kansas**  
1930 Constant Ave.  
Lawrence, KS 66047-3726  
(785) 864-3965

**KS Herpetological Society**  
**Museum of Natural History KU**  
1345 Jayhawk Blvd.  
Lawrence, KS 66045  
(785) 864-4540

**KS Museum of History**  
6425 SW 6th Ave.  
Topeka, KS 66615-1099  
(785)-272-8681

**KS Ornithological Society**  
**Dept. of Biological Sciences**  
**Fort Hays State University**  
Hays, KS 67601  
(785) 628-4000

**KS School Naturalist**  
**Division of Biological Sciences**  
**Emporia State University**  
Emporia, KS 66801  
(620) 343-1200

**KS State Conservation Commission**  
109 SW Ninth St. Suite 500  
Topeka, KS 66612-1299  
(785) 296-3600

**KS State Department of Education  
Science, Math, &  
Environmental Education**  
120 SE 10th Ave.  
Topeka, KS 66612-1182  
(785) 296-3201

**Kouffman Museum  
Bethal College**  
North Newton, KS 67117  
(316) 283-1612

**Diane Johnson  
Operation Wildlife**  
23375 Guthrie  
Linwood, KS 66052  
(785) 542-3625

**KS Department of Health and  
Environment LSOB**  
1000 SW Jackson, Suite 320  
Topeka, KS 66612-1366  
(785) 296-1540

**Kirwin National Wildlife Refuge**  
RT 1 Box 103  
Kirwin, KS 67644  
(785) 543-6673

**Pine Ridge Interpretive Center  
Pomona Reservoir**  
RT 1  
Vassar, KS 66543  
(785) 453-2201

**KS State Extension Services  
Dept. of Animal Sciences & Industry  
K-State University  
Animal Damage Control**  
128 Call Hall  
Manhattan, KS 66506  
(785) 532-5654

**Lake Afton Public Observatory**  
250th St. W & 39th St. S  
Wichita, KS  
(316) 689-3191 or (316) 794-8995

**Pheasants Forever**  
205 S Santa Fe  
Salina, KS 67401-3931  
(785) 823-0240

**KS State Extension Forestry  
K-State University**  
2610 Claflin Rd.  
Manhattan, KS 66502  
(785) 537-7050

**Lakewood Park Nature Center  
Salina Park & Recreation**  
300 W. Ash  
Salina, KS 67401  
(785) 826-7335

**PSU Science Education Center  
College of Arts & Science  
Pittsburg State University**  
Pittsburg, KS 66762  
(620) 235-4292

**KS Seirra Club**  
J Scott Smith  
2111 Snowbird Drive  
Manhattan, KS 66502-1960

**Lee Richardson Zoo Fynnup Park**  
P.O. Box 499  
301 N. Eighth St.  
Garden City, KS 67846  
(620) 276-1250

**Pratt Nature Center**  
512 SE 25th Ave.  
Pratt, KS 67124  
(620) 672-5911 ext. 176

**KS Water Office**  
109 SW Ninth St. Suite 300  
Topeka, KS 66612-1249  
(785) 887-6057

**Milford Nature Center**  
3115 Hatchery DR  
Junction City, KS 66441-8369  
(785) 238-5323

**Project Learning Tree Forestry  
Extension Kansas State University**  
2610 Claflin RD  
Manhattan, KS 66502  
(785) 537-7050

**KS Wetlands and Riparian Area  
Alliance**  
P.O. Box 236  
McPherson, KS 67460-0236  
(620) 241-6921

**Museum of Natural History  
University of Kansas**  
Jayhawk Blvd.  
Lawrence, KS 66045  
(785) 864-4540

**Project WILD / Aquatic  
Kansas Dept. of Wildlife & Parks**  
512 SE 25th Ave.  
Pratt, KS 67124  
(620) 672-5911

**KS Wildlife Federation, Inc.**  
606 Garfield  
Sedgwick, KS 67135  
(316) 772-5265

**Nature Conservancy**  
820 SE Quincy, Suite 301  
Topeka, KS 66612  
(785) 233-4400

**Quivera National Wildlife Refuge**  
RT 3 Box 48B  
Stafford, KS 67578  
(620) 486-2393

**Kaw Valley Heritage Alliance  
Streamlink**  
414 E 9th St. Suite B  
Lawrence, KS 6604-2629  
(785) 840-0700

**Nature Reach/Science Education  
Center Pittsburg State University**  
Pittsburg, KS 66762  
(620) 231-7000

**Schmidt Museum of Natural History  
Emporia State University**  
1200 Commercial  
Emporia, KS 66801  
(620) 341-5611

**Sedgwick Co. Dept. of  
Environmental Resources  
Historic County Courthouse**  
510 N. Main St.  
Wichita, KS 67203  
(316) 721-9418

**Sunset Zoological Park**  
2333 Oak St.  
Manhattan, KS 66502  
(785) 587-2737

**Wildwood Outdoor Education Center**  
7095 W 399th St.  
La Cygne, KS 66040  
(785) 757-4500

**Sedgwick County Zoo**  
5555 Zoo Blvd.  
Wichita, KS 67212  
(316) 942-2212 EXT: 213

**Topeka Zoological Park  
Zoo Education Program**  
635 SW Gage Blvd.  
Topeka, KS 66606-2066  
(785) 272-7595

**Western Prairie RC&D  
Area, Inc.**  
350 S Range Suite 13  
Colby, KS 67701-2901  
(785) 462-2602

**Soil Conservation Services**  
P.O. Box 600  
Salina, KS 67401  
(785) 823-4500

**U.S. Fish & Wildlife Service  
Kansas Field Office**  
P.O. Box 128  
Hartford, KS 66854  
(620) 392-5553

**Wolf Creek Environmental  
Education Area**  
1550 Oxen Ln. NE  
Burlington, KS 66839  
(620) 364-4141

**State Assoc. of KS Watersheds**  
P.O. Box 182  
Newton, KS 67114-0182  
(316) 283-0370

**USDA Forest Service  
Cimarron National Grasslands**  
P.O. Box 654  
Elkhart, KS 67950-0654  
(620) 697-4621

**National Tallgrass Prairie Preserve**  
RT 1 Box 14  
Strong City, KS 66869  
(620) 273-8139

**Sunflower RC&D Area, Inc.**  
705 E Main St.  
Harper, KS 67058-1725  
(620) 896-7378

**Wildcare**  
P.O. Box 901  
Lawrence, KS 66044  
(785) 583-9800

## ADDITIONAL RESOURCES

---

**Kids for Saving Earth**  
620 Mendelssahn Suite 145  
Golden Valley, MN 55427  
(612) 525-0002

**National Park Service Interior BLDG  
U.S. Department of Interior**  
P.O. Box 37127  
Washington, DC 20240  
(202)208-6843

**Natural Resource  
Conservation Service**  
760 S Broadway  
Salina, KS 67401  
(785) 823-4500

**National Audubon Society**  
950 Third Ave.  
New York, NY 10022  
(212) 832-3200  
(913) 537-4385

**National Wildlife Federation**  
1400 - 16th St. NW  
Washington, DC 20036  
800-432-6564

**The Wildlife Society:  
Kansas Chapter**  
(Contact KDWP @ Pratt)

**Kansas Regional Office  
National Audubon Society**  
813 Juniper Dr.  
Manhattan, KS 66502

**Sierra Club**  
730 Polk ST  
San Fransico, CA 94109  
(415) 776-2211

**U.S. Fish & Wildlife Service  
Kansas Field Office**  
315 Houston Suite E  
Manhattan, KS 66502  
(785) 539-3474

# Table of Contents

This page is organized to assist you in locating the suggested activities for your grade level.

K-First Grade -	▼
Second Grade -	■
Third Grade -	●

## Section I WHAT IS WILDLIFE

### X-XII INTRODUCTION

▼	1-7	The Wild Rainbow
▼	8	Wildlife Cutouts
▼ ■ ●	9	Animal Scramble
■ ●	10	Mix and Match
▼	11-17	Wildlife Alphabet
■ ●	18	Wildlife Riddles
▼	19	Name the Animal with a Letter
▼ ■ ●	20	SHOWCASING- ABC'S Numbers and Wildlife
▼ ■ ●	21	Critter Curiosity
■	22-34	Zany Zoology
▼ ■ ●	35-40	Wildlife's Rainbow
▼ ■	41-44	Seasons Make A Scene
■ ●	45-46	Wildlife in Books
▼ ■ ●	47	Domestic Vs. Wild
▼ ■ ●	48	Nature Bingo
■ ●	49	Wildlife Mix and Match
	50	ANSWER KEY FOR WHAT IS WILDLIFE

## Section II HABITAT

### 51-53 INTRODUCTION

- ● 54 Quiz
- ● 55 Where Do I Belong
- ▼ ■ ● 56 Habitat Cubes
- ▼ ■ ● 57 Habitat is Essential for Wildlife
- ▼ ■ ● 58 What Do I Need To Live
- 59 Habitat Crossword
- 60 Interspersed Vocabulary
- 61 Give Wildlife an Edge
- ● 62 Habitat Word Review
- ▼ ■ ● 63 Habitat Bulletin Board Ideas
- ▼ ■ ● 64 Wild Bulletin Board Ideas
- 65 ANSWER KEY FOR HABITAT

K-First Grade - ▼

Second Grade - ■

Third Grade - ●

## Section III FOOD CHAINS AND WEBS

### 66-68 INTRODUCTION

- ● 69 Predator/Prey
- ▼ ■ ● 70 Food Pyramid Bulletin Board
- 71 Pyramid Power
- ▼ ■ ● 72 A Mobile Food Chain
- 73 ANSWER KEY FOR FOOD CHAINS AND WEBS



# What is Wildlife ?

## INTRODUCTION AND RESOURCES

A good question to start our discussion. Wildlife covers a wide range of organisms, from microscopic life to the largest living thing, the blue whale. They differ from our domesticated animals, like dogs, cats, horses, and cattle. Wildlife lives in a free condition, acquiring its basic needs, like food, water, and shelter from its surroundings or habitat. In general, if an animal can live and reproduce on its own we consider it wildlife. While it is true all domesticated animals were wild at one time, they have become dependent upon humans for many of their needs. We also maintain domestic animals for a specific purpose, some serve as pets, others as sources of food or domestic goods, such as leather products.

Sometimes it is difficult to distinguish between whether an animal is domestic or wild, like animals in a zoo. Often we must ask ourselves “where would I normally find this animal?” A lion in a zoo setting may appear tame and being cared for by humans, but where would you normally find this animal? Would it be on the plains of Africa where it must hunt for its food and seek shelter under the trees or in brush areas within its habitat? Wherever there is difficulty in distinguishing between domestic and wild animals, encourage the student to think in terms of what is usually the case.

### REFERENCE CENTER

#### Books

BK 3-6	A Child's Book of Birds
BK 3-24	US Bourne First Nature: Birds
BK 4-3	Wild Animals of North America
BK 12-9D	NatureScopes: Birds, Birds, Birds
BK 12-10BI	Eyewitness Jr: Amazing Birds

#### Computer Software

CD-RO-3-W	Animal Encyclopedia
-----------	---------------------

#### Game Kits

GK-3	Wildlife Lotto
GK-4	Wildlife Concentration
GK-6	Animal Kingdom
GK-7	110 Animals
GK-13	Yotta Know Birds
GK-14	Yotta Know Waterfowl
GK-15	Yotta Know Mammals
GK- 19	Backyard Birds

#### Filmstrips

FS-41	Alike and Different
FS-43	Amazing Animals

#### Learning Kits

LK-5	Wildlife in Your World
LK-65	Wildlife Casting
LK-26	Replitracks
LK-153	Birds Fandex Guide
SK	Skins and Skulls

#### Slide Series

SS-35	Kansas Wildlife Identification
SS-38	Discover Wildlife in Your Backyard

#### Video Tapes

VT-64	Birds
VT-159	Animals in Action: Baby Birds
VT-294	Kansas Outdoor Wonders
VT-329	Eyewitness: Bird
VT-330	Eyewitness: Fish
VT-338	Eyewitness: Mammal
VT-345	Eyewitness: Amphibian
VT-346	Eyewitness: Reptile

## NATURE'S NOTEBOOK

### Amphibian & Reptiles

Information and Activity Sheets	A-1 - A-15
Species Highlighted - Amphibians	AA-1 - AA-4
Species Highlighted - Reptiles	AA-5 - AA-15

### Birds

Information and Activity Sheets	C-1 - C-34
Species Highlighted	CC-1 - CC-38

### Ecological Concepts

Information and Activity Sheets	E-1 - E-12
---------------------------------	------------

### Fish

Information and Activity Sheets	G-1 - G-14
Species Highlighted	GG-1 - GG-12

### General Wildlife

Information and Activity Sheets	I-1 - I-52
---------------------------------	------------

### Invertebrates

Information and Activity Sheets	J-1 - J-22
Species Highlighted	JJ-1 - JJ-14

### Mammals

Information and Activity Sheets	K-1 - K-42
Species Highlighted	KK-1 - KK-13

## ON T.R.A.C.K.S. NEWSLETTER

Check each "Species Spotlight" from issue Vol. 2, No. 1 - Vol. 5, No. 2. The following issues are excellent resources on Kansas Wildlife.

The On T.R.A.C.K.S. Newsletter can be obtained for free by contacting the Wildlife Education Services section of the KS Dept of Wildlife & Parks by writing to C/O WES, KDWP 512 SE 25th Ave. Pratt, KS 67124 or phoning (620) 672-5911 or by E-mail at [ShelbyS@wp.state.ks.us](mailto:ShelbyS@wp.state.ks.us).

The Prairie	Vol. 3, No. 3
Birds, Birds, Birds	Vol. 4, No. 1
The Twilight Zone	Vol. 4, No. 2
Is It a Mammal?	Vol. 5, No. 1
Jurassic Rocks	Vol. 5, No. 3
Kansas Symbol's	Vol. 6, No. 2
Life in a Pond	Vol. 7, No. 2
Bugs, Bugs, Bugs	Vol. 7, No. 3
Kansas Amphibians & Reptiles	Vol. 8, No. 1
Kansas Wildlife of the Past	Vol. 8, No. 2
Fish, Fish, and more Fish	Vol. 8, No. 3
Jeopardy	Vol. 9, No. 2
Owls: Masters of the Night	Vol. 11, No. 1
Deer in Kansas	Vol. 11, No. 2

## PROJECT AQUATIC

ACTIVITY	PAGES NEW GUIDE	PAGES OLD GUIDE
Are You Me?	2	14
Fashion a Fish	56	88
Marsh Munches (3rd Grade)	34	58

## PROJECT LEARNING TREE

ACTIVITY	PAGES
The forest of S.T. Shrew	20
School Yard Safari	151

## PROJECT WILD

ACTIVITY	PAGES NEW GUIDE	PAGES OLD GUIDE
Animal Charades	280	4
Museum Search for Wildlife	182	72
Tracks	30	52
What's Wild	7	2
Wildlife is Everywhere	51	20



# What is Wildlife ?

## TABLE OF CONTENTS

K-First Grade - ▼

Second Grade - ■

Third Grade - ●

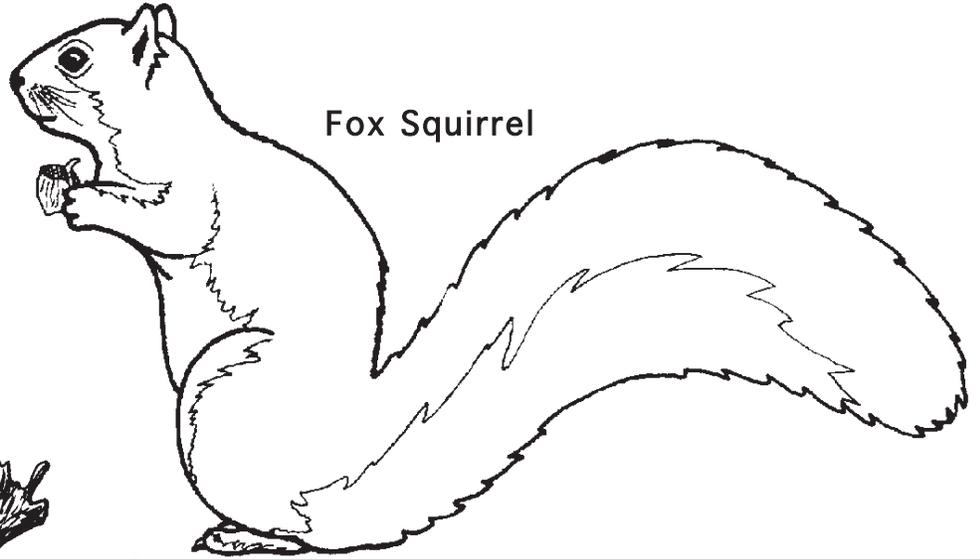
### X-XII INTRODUCTION

- ▼ 1-7 **The Wild Rainbow:** Students can color the examples of Kansas' wildlife using their predominate coloration, such as red, orange, yellow, green, blue, brown, and black.
- ▼ 8 **Wildlife Cutouts:** A squirrel-go-around.
- ▼ ■ ● 9 **Animal Scramble:** Match of mix the picture pieces of Kansas wildlife.
- ● 10 **Mix and Match:** Match the animal and its track to the given "hint".
- ▼ 11-17 **Wildlife Alphabet:** Practice writing the alphabet by printing the names of Kansas animals.
- ● 18 **Wildlife Riddles:** Can you identify who the riddle is about.
- ▼ 19 **Name the Animal with a Letter:** Use the animals you have seen so far to fill in the blanks.
- ▼ ■ ● 20 **SHOWCASING- ABC'S Numbers and Wildlife:** Use what you have learned to develop an on-going wildlife investigation study on a bulletin board or at a study center.
- ▼ ■ ● 21 **Critter Curiosity:** Create a bulletin board showcasing using your various areas of inquire.
- 22-34 **Zany Zoology:** Practice cursive penmanship using the first letter of the names of Kansas wildlife.
- ▼ ■ ● 35-40 **Wildlife's Rainbow:** Color Kansas wildlife in their natural settings (habitat).
- ▼ ■ 41-44 **Seasons Make A Scene:** Color Kansas wildlife in their seasonal settings (habitat).
- ● 45-46 **Wildlife in Books:** Report on a book you read about wildlife.
- ▼ ■ ● 47 **Domestic Vs. Wild:** Can you match the domestic animal with its wild counter part.
- ▼ ■ ● 48 **Nature Bingo:** Record what you see on an outdoor field trip.
- ● 49 **Wildlife Mix and Match:** Match the animal with their description.
- 50 **ANSWER KEY FOR WHAT IS WILDLIFE**

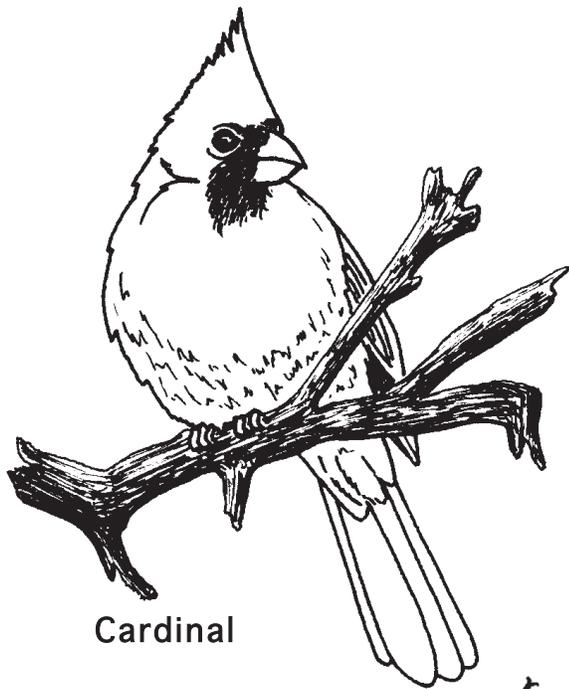
# THE WILD RAINBOW

NAME \_\_\_\_\_

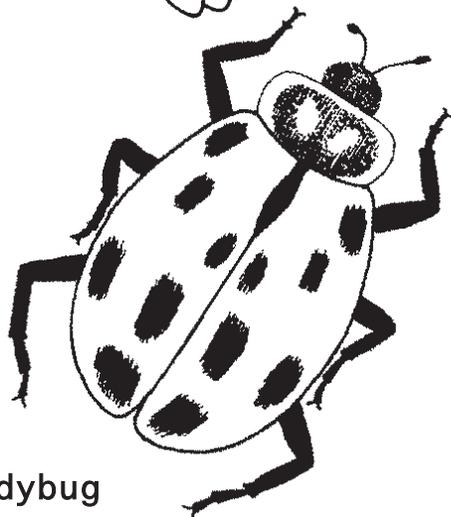
# RED



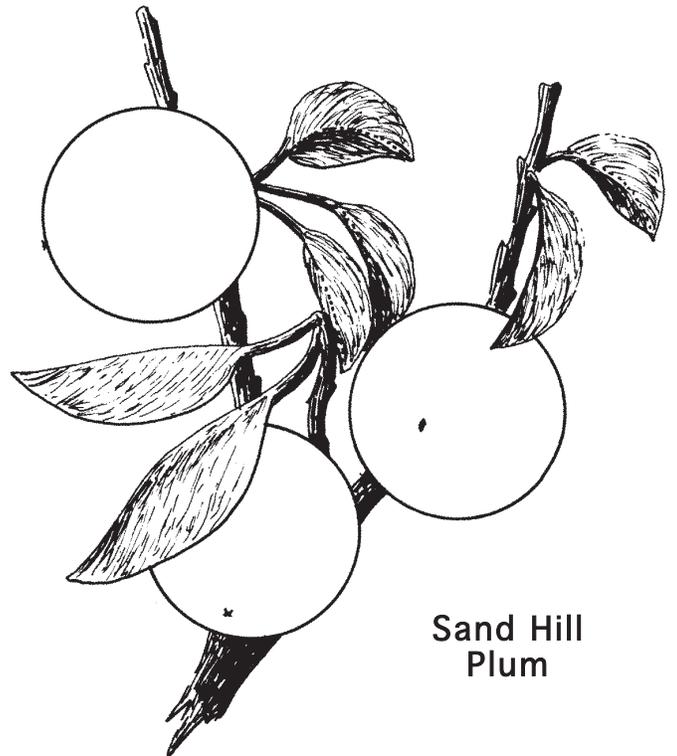
Fox Squirrel



Cardinal



Ladybug



Sand Hill  
Plum

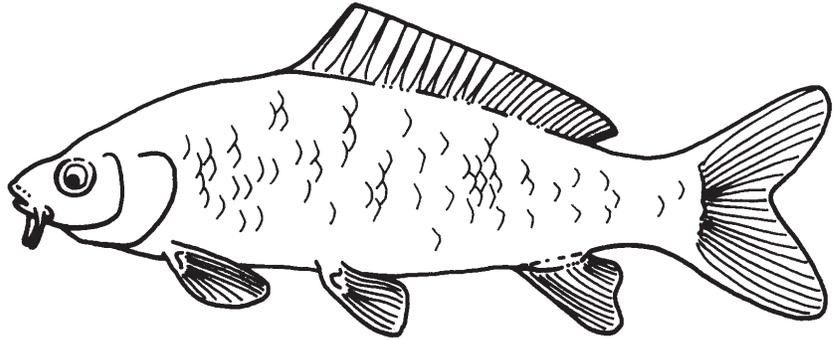


# THE WILD RAINBOW

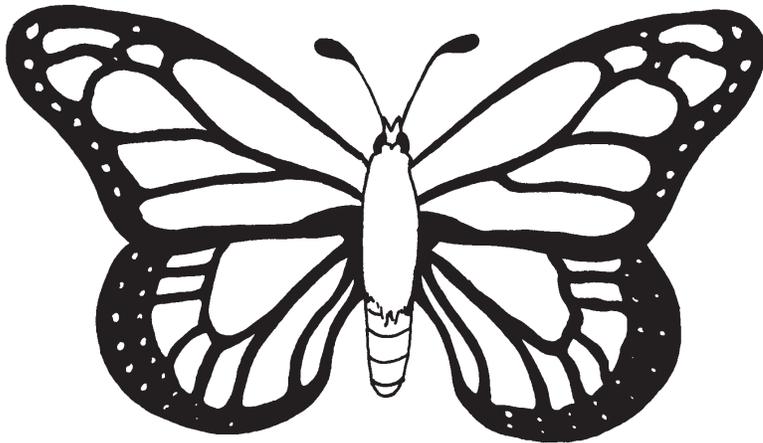
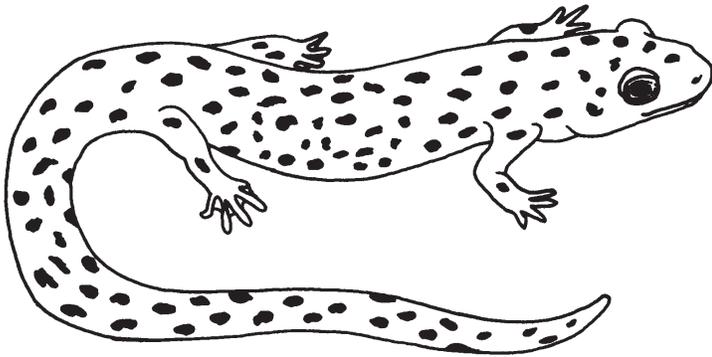
NAME \_\_\_\_\_

# ORANGE

Carp



Cave Salamander



Monarch Butterfly



Baltimore Oriole



# THE WILD RAINBOW

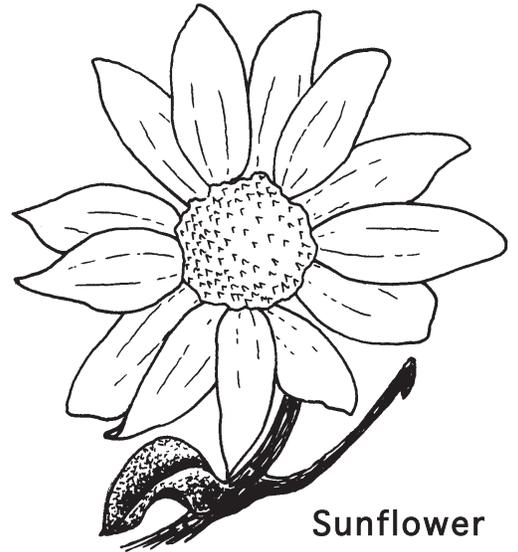
NAME \_\_\_\_\_

# YELLOW

Meadowlark



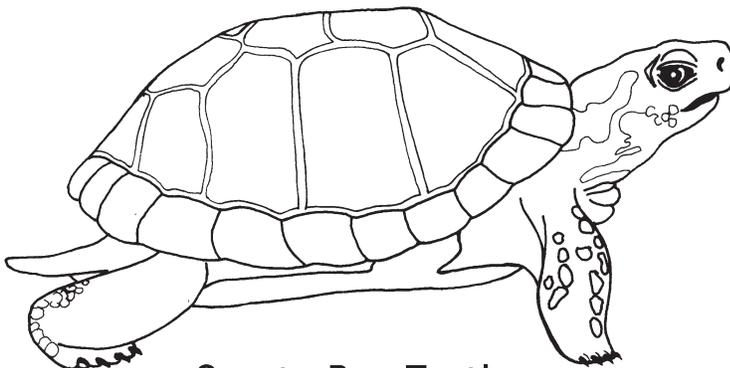
State  
Symbol  
Page



Sunflower



Honey Bee



Ornate Box Turtle



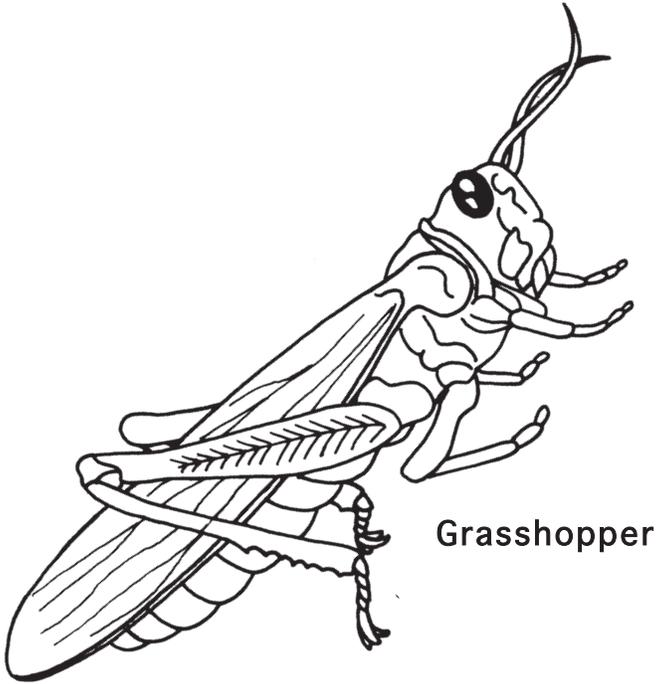
Tiger Salamander



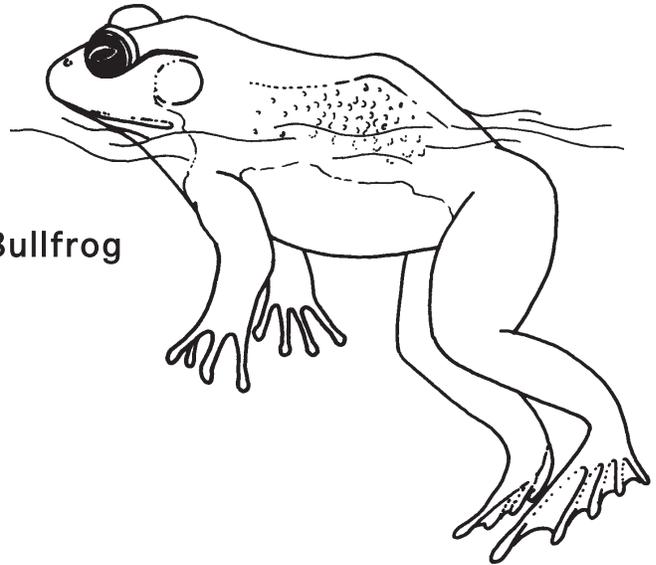
# THE WILD RAINBOW

NAME \_\_\_\_\_

# GREEN



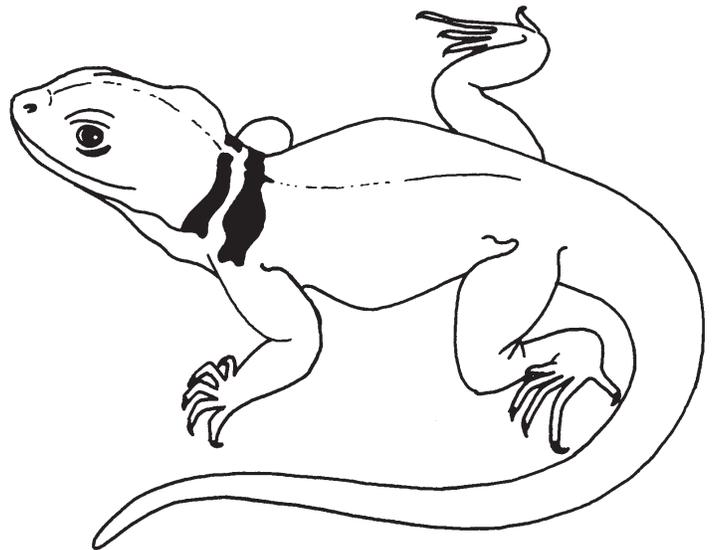
Grasshopper



Bullfrog



Cottonwood Leaf



Collared Lizard

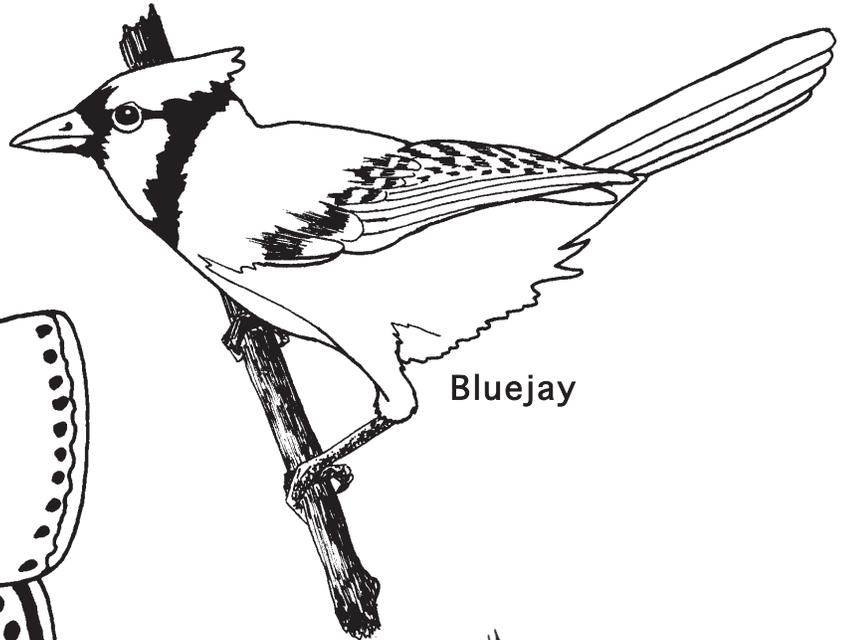
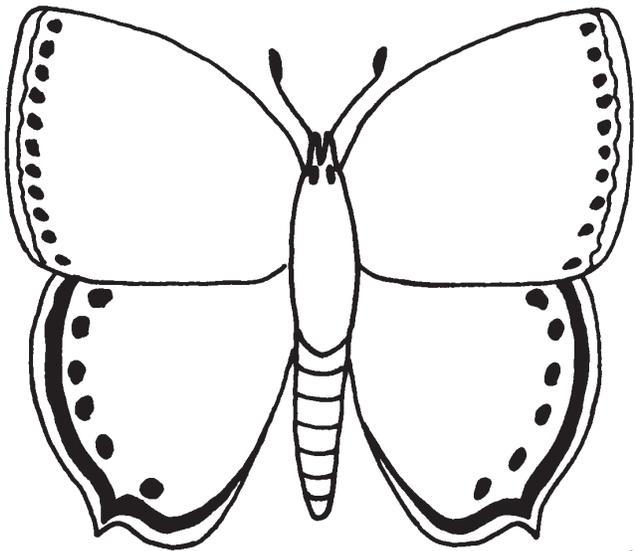


# THE WILD RAINBOW

NAME \_\_\_\_\_

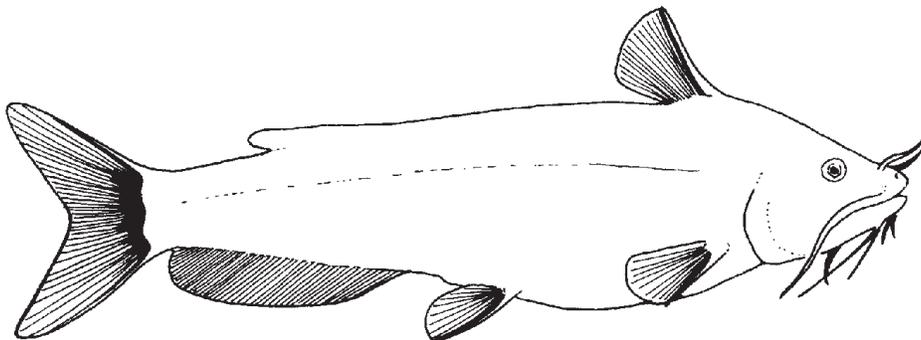
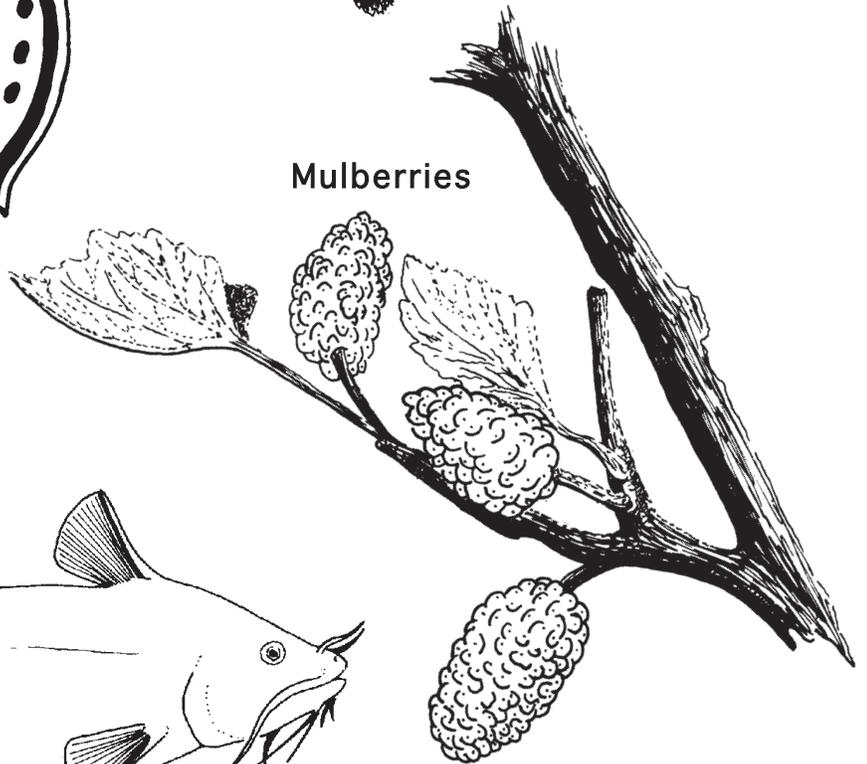
# BLUE

Blue Butterfly



Bluejay

Mulberries



Blue Catfish

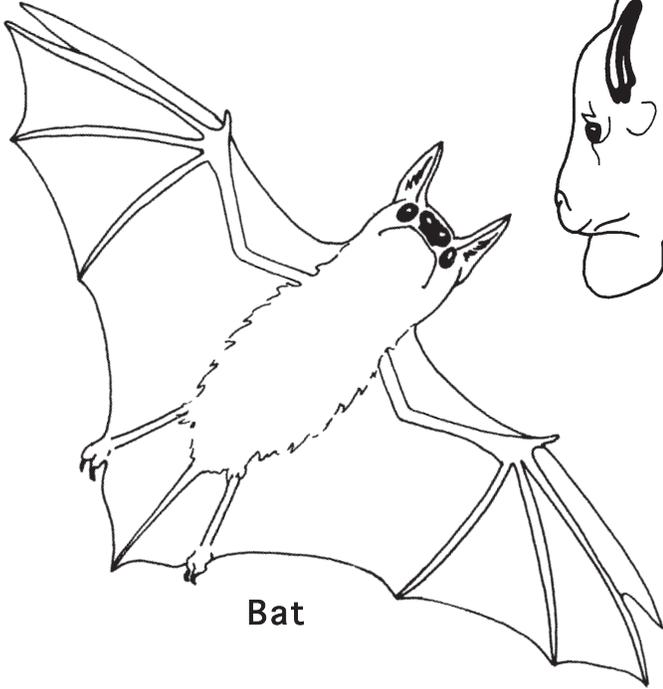
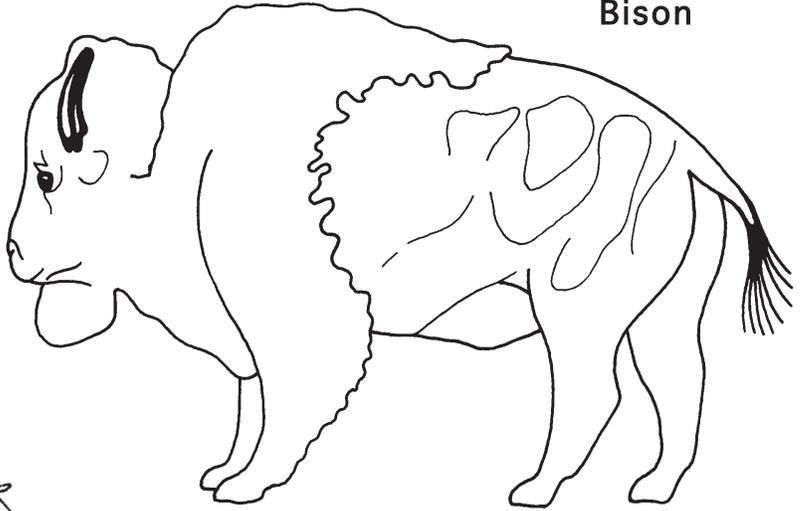


# THE WILD RAINBOW

NAME \_\_\_\_\_

## BROWN

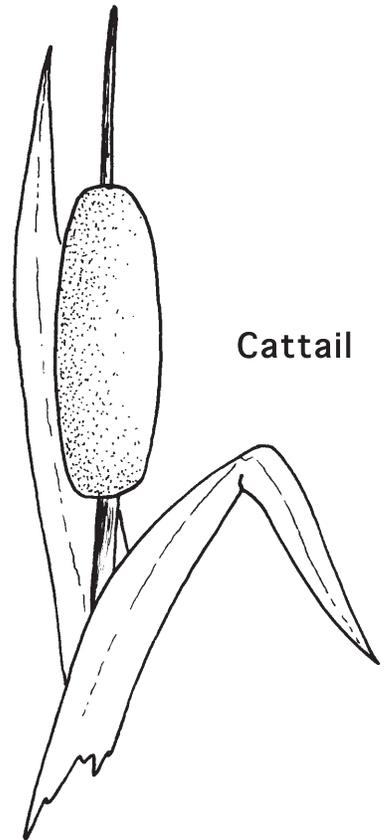
Bison



Bat



Barred Owl



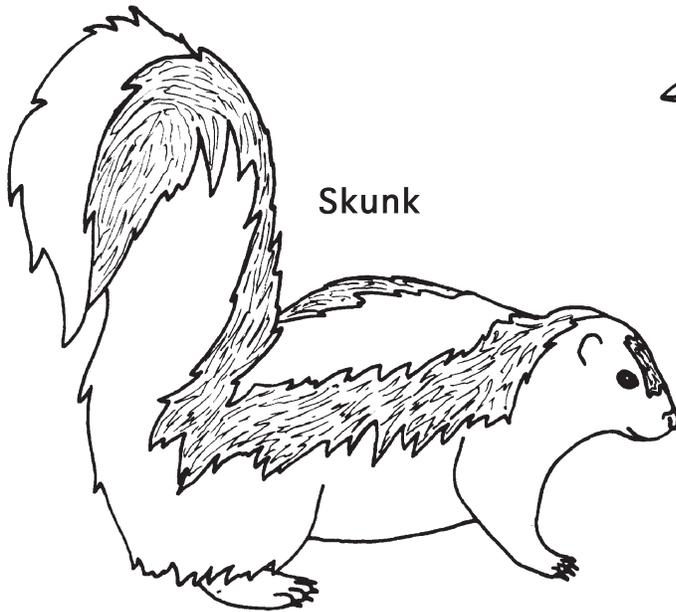
Cattail



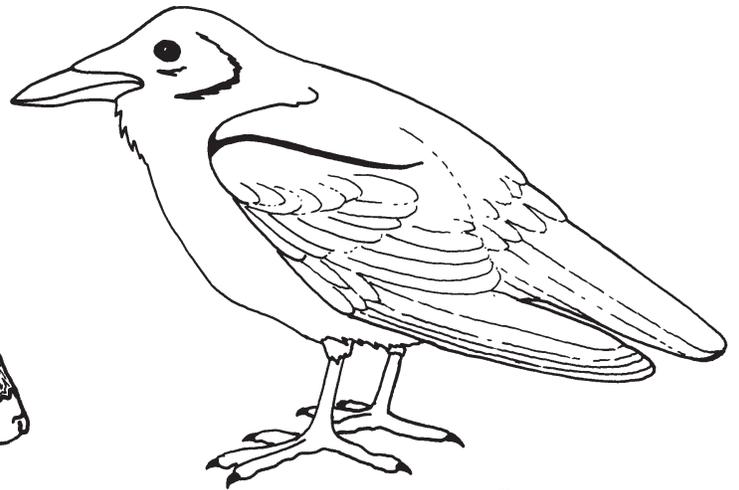
# THE WILD RAINBOW

NAME \_\_\_\_\_

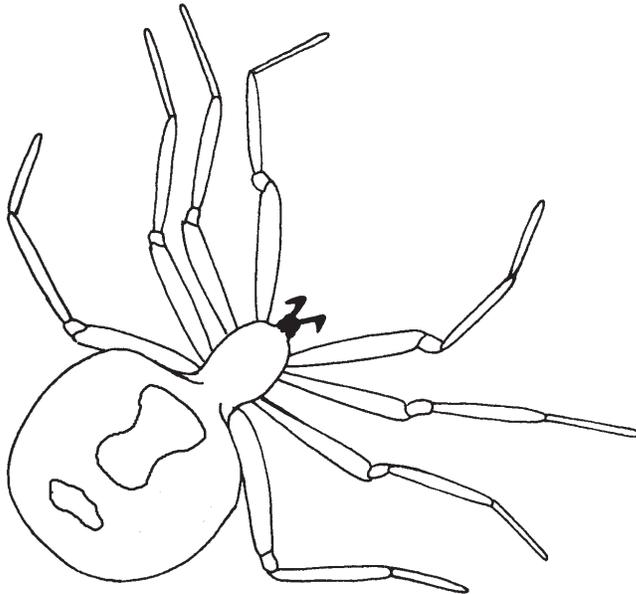
# BLACK



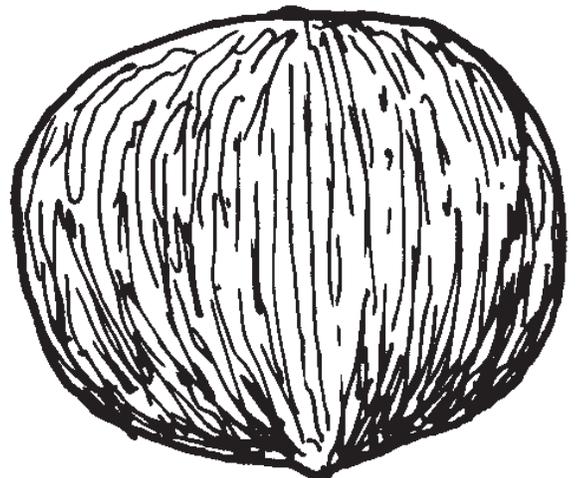
Skunk



Crow



Black Widow Spider



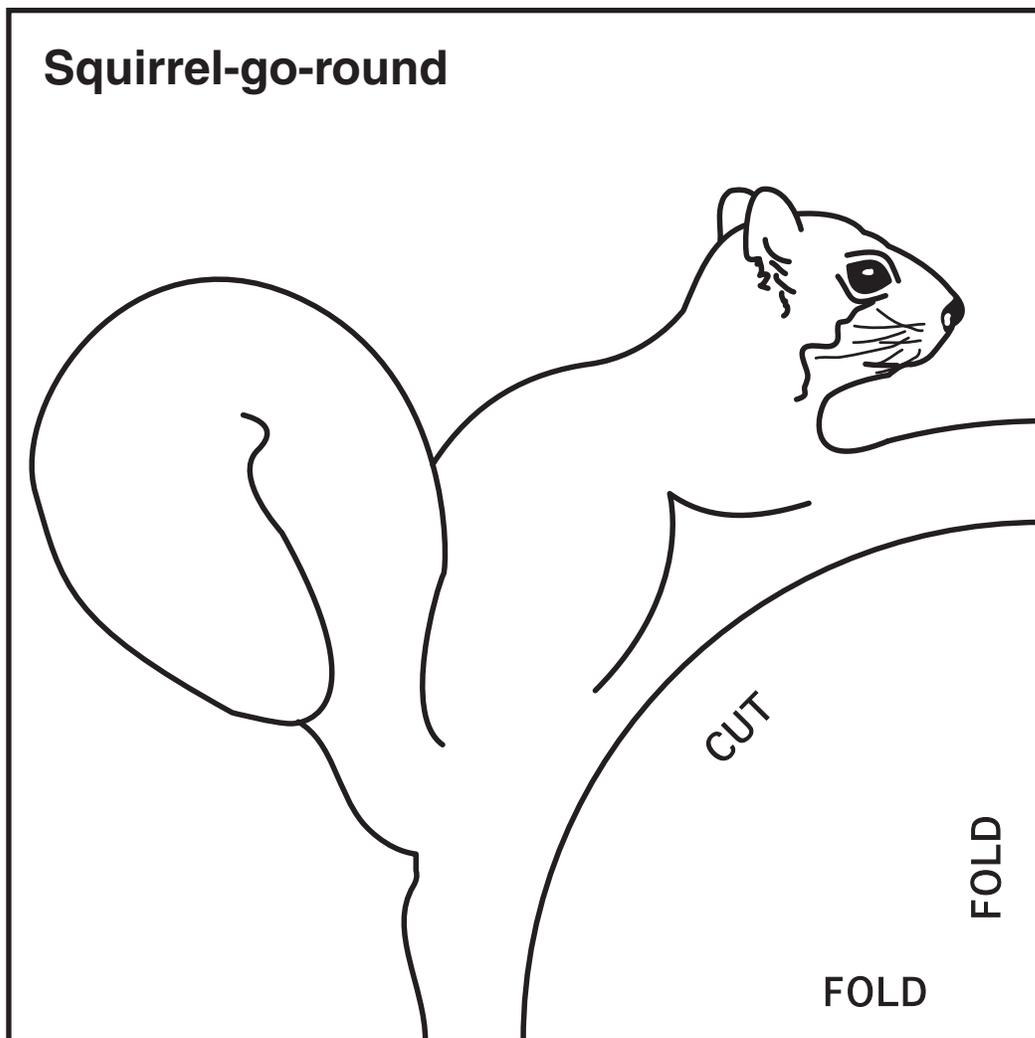
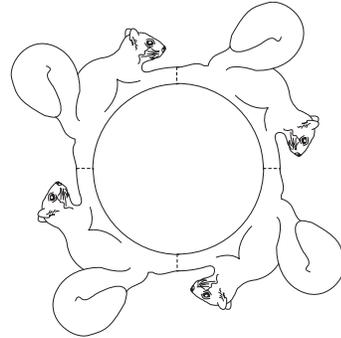
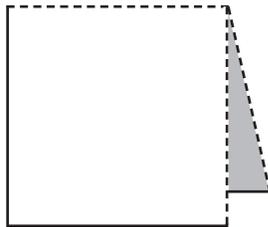
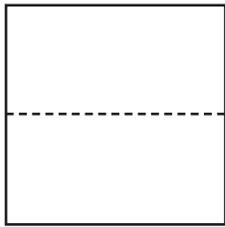
Black Walnut



# Wildlife Cutout

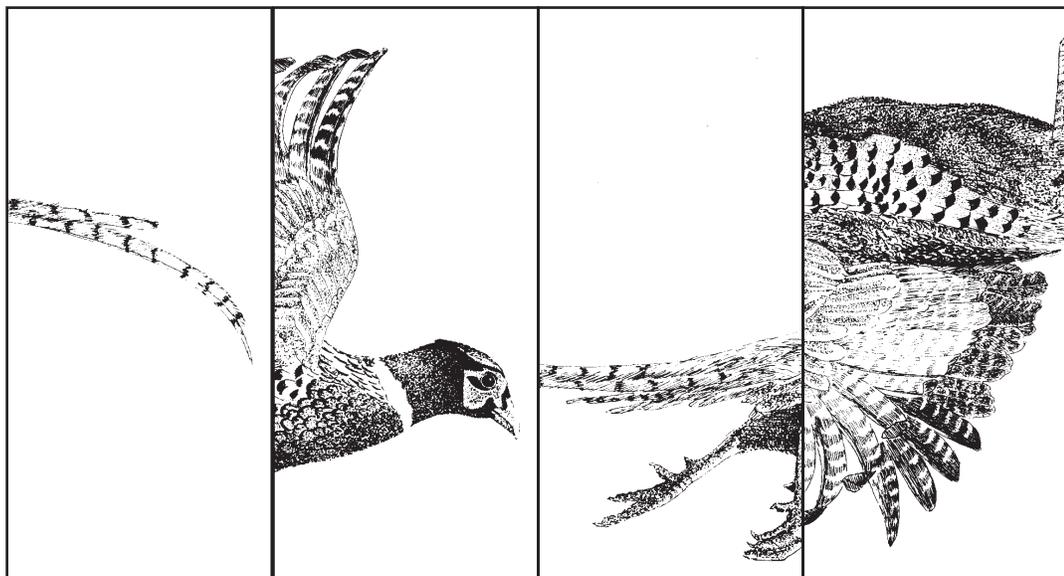
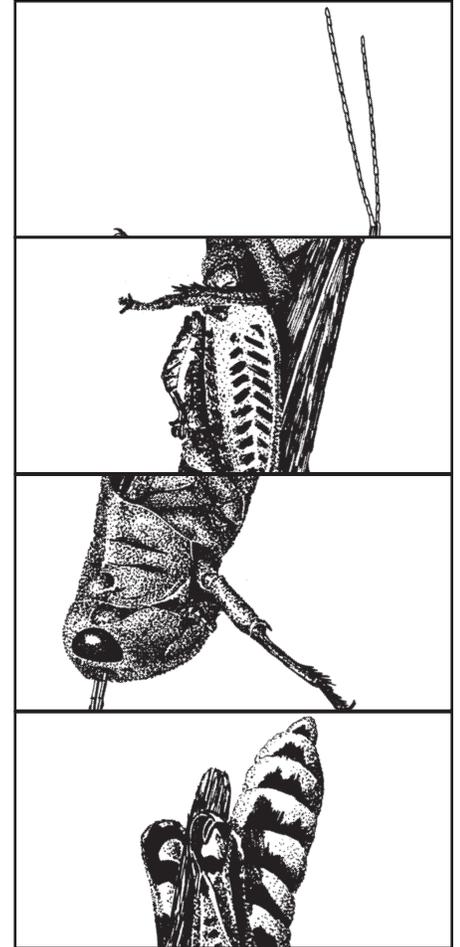
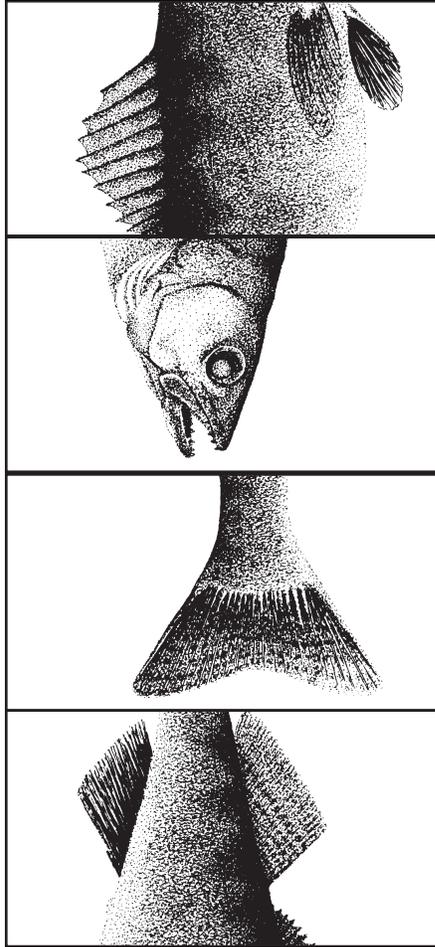
Wildlife paper cutouts makes an excellent art project. Use the pattern below or design your own.

**Directions:** Fold a square piece of paper in half twice. Draw your animal design; make sure the edges that are to connect are on a fold (in the example it would be the squirrel's front paws and hind feet.). Cut out your pattern; add detail using crayons or colored markers.



# ANIMAL SCRAMBLE

Directions: Build a familiar animal by cutting out the picture pieces.



# MIX AND MATCH

NAME \_\_\_\_\_

**Directions:** Read the “hints” and match the animal with its track.

The **coyote** track looks like a large dog. — —

**Skunks** have a large, bushy tail. Their hind paw print look a lot like your foot. — —

**Beavers** have large front teeth, a broad tail and webbed hind feet to help them swim in water. — —

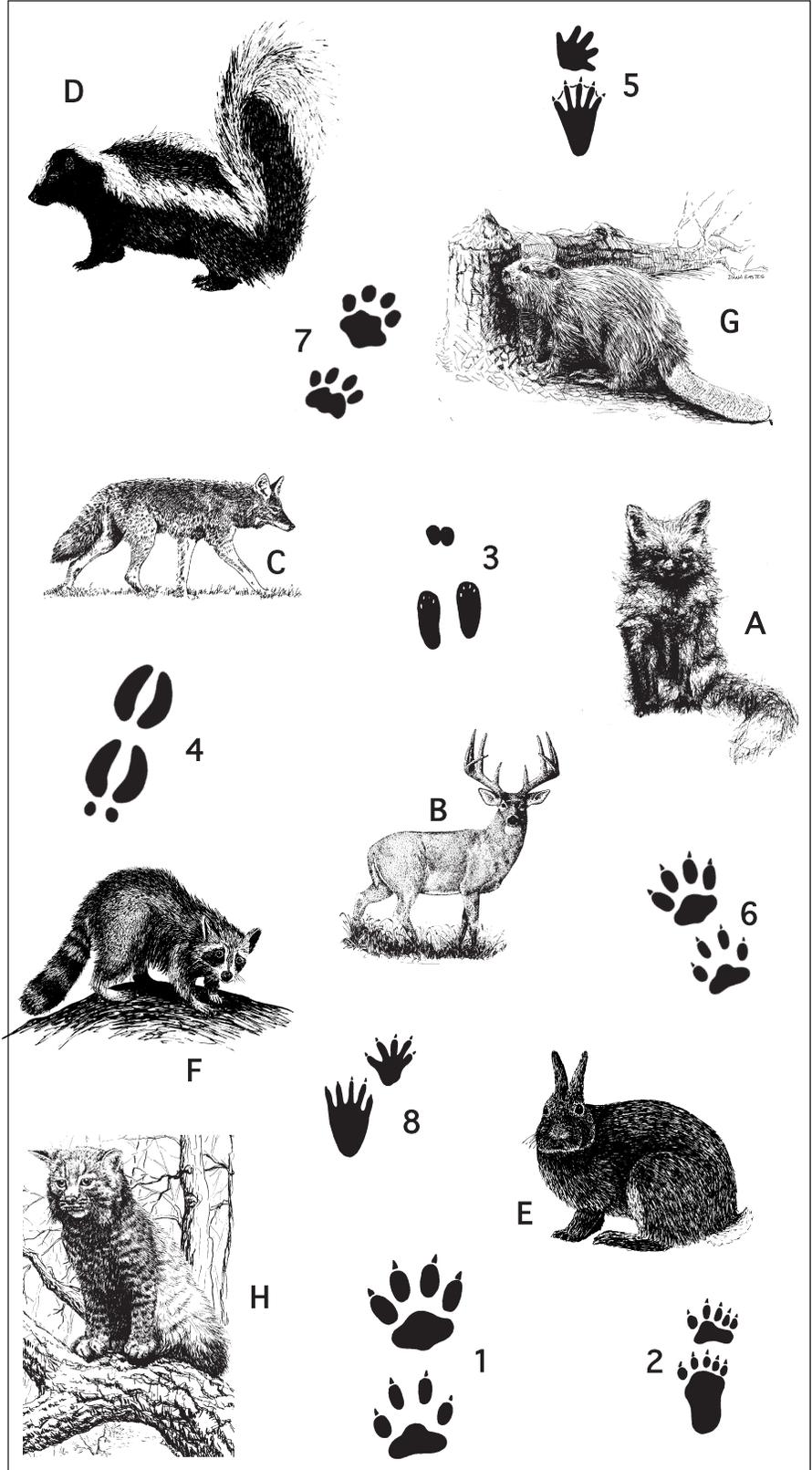
**Deer** have hooves, not paws, and their track has two toes that looks like bat wings. — —

**Foxes** are smaller than coyotes and more fur on the paw that leaves a fuzzy small “dog like” track. — —

**Rabbits** have large hind legs, short front legs and long ears. The track of their hind feet are much bigger than the front. — —

**Raccoons** have a ringed tail, a black mask around their eyes and tracks that look like your hand print. — —

**Bobcats** have short tails. Their track only shows the paw pads and no claw marks. — —



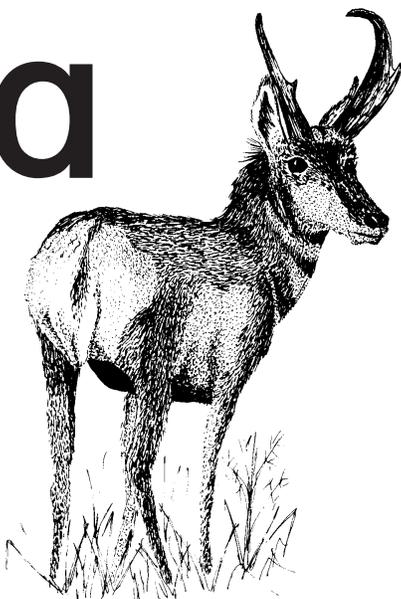
# WILDLIFE

# ALPHABET

NAME \_\_\_\_\_

**Directions:** Print/write the first letter in each of the animal's name in upper and lower case. Try writing the animal's complete name.

# Aa



# Bb



Antelope

---

---

---

---

Bison

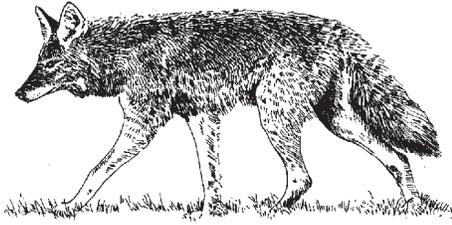
---

---

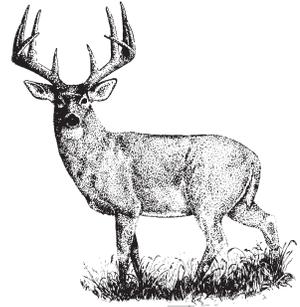
---



Cc



Dd



Coyote

---

---

---

Deer

---

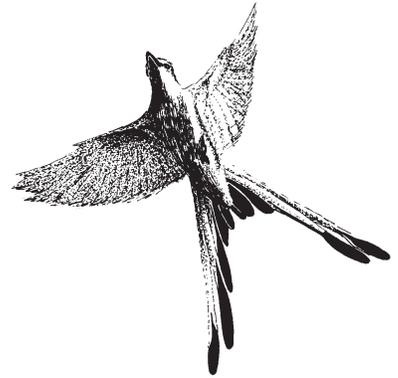
---

---

Ee



Ff



Eagle

---

---

---

Flycatcher

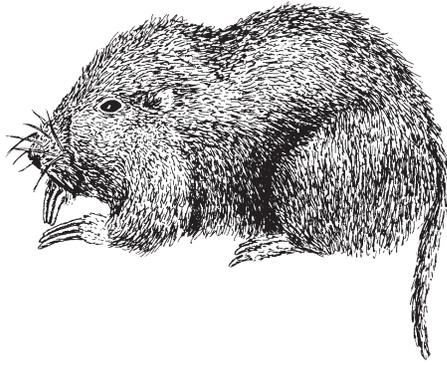
---

---

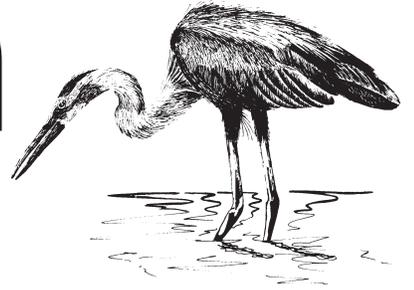
---



Gg



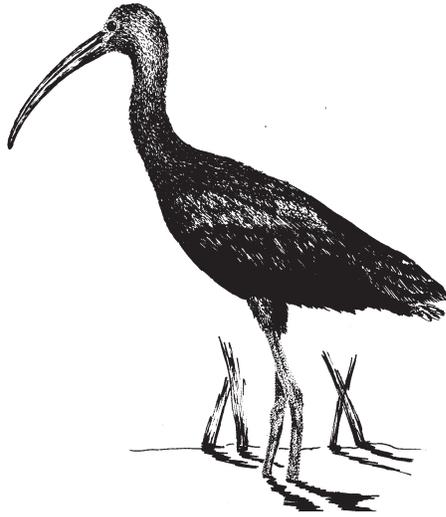
Hh



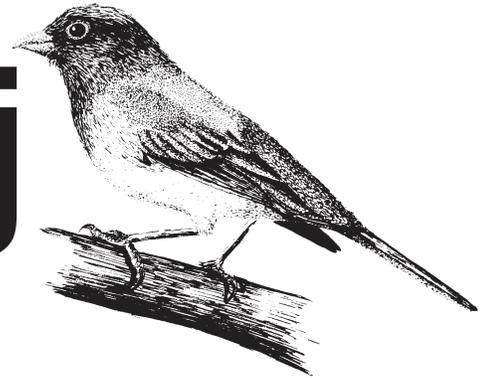
Gopher

Heron

li



Jj

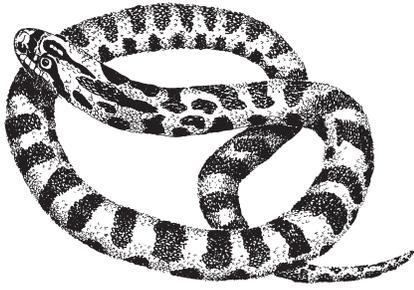


Ibis

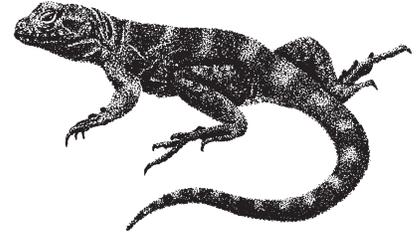
Junco



**Kk**



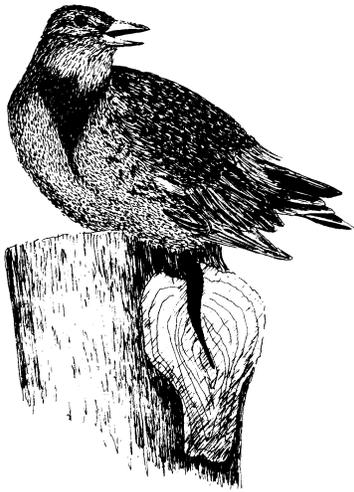
**Ll**



Kingsnake

Lizard

**Mm**



**Nn**



Meadowlark

Nighthawk



Oo



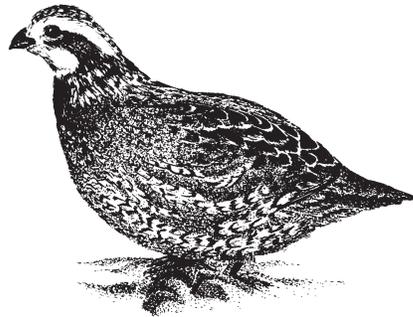
Pp



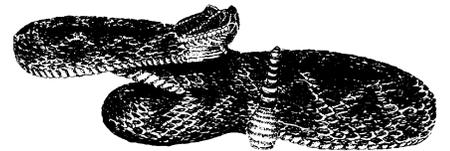
Opossum

Pheasant

Qq



Rr

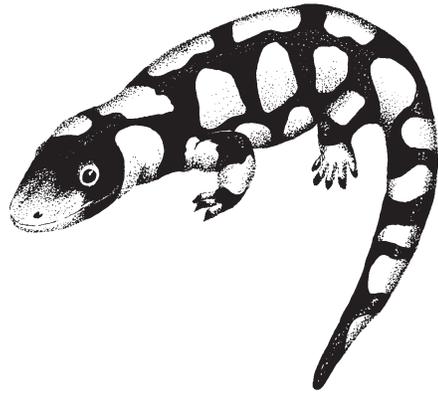


Quail

Rattlesnake



Ss



Tt



Salamander

Handwriting practice lines consisting of a solid top line, a dashed middle line, and a solid bottom line.

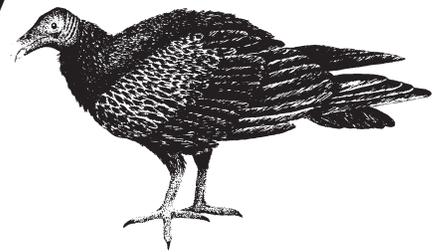
Turkey

Handwriting practice lines consisting of a solid top line, a dashed middle line, and a solid bottom line.

Uu



Vv



Unicorn  
(Beetle)

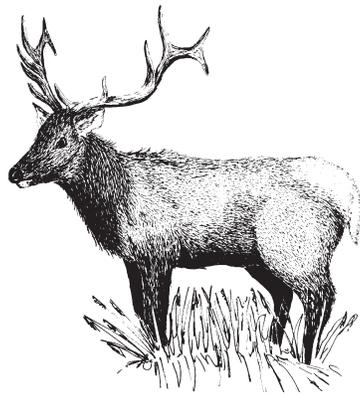
Handwriting practice lines consisting of a solid top line, a dashed middle line, and a solid bottom line.

Vulture

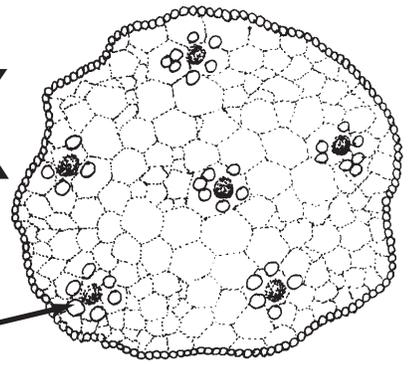
Handwriting practice lines consisting of a solid top line, a dashed middle line, and a solid bottom line.



Ww



Xx

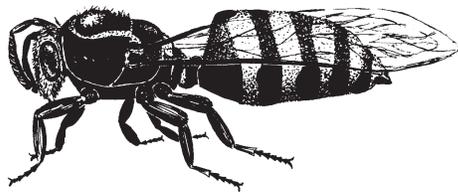


Xylem

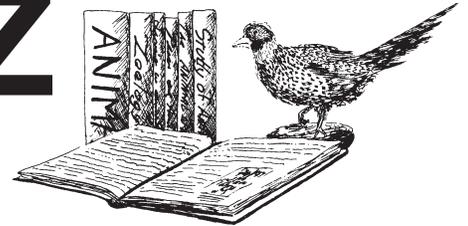
Wapiti

Xylem  
(Plant Part)

Yy



Zz



Yellowjacket

Zoology  
(The study  
of Animals)

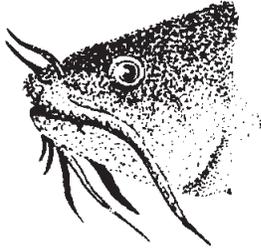


# WILDLIFE RIDDLES

NAME \_\_\_\_\_

**Directions:** Can you guess what animal these riddles are about? Place your answer in the blank.

A brown fish with barbels that look like whiskers. My food (insects, crayfish, and fish) is found by smelling and tasting. I have a very fat head and tiny eyes. Who am I?



An insect that lives in hives near fields of flowers. My six legs and two pair of wings are used to gather pollen. Who am I?



I am a large mammal who lives on the prairie. I have horns on my large, shaggy head. Who am I?



A reptile that moves slowly, carrying my home with me. My upper box-like shell is dark with yellow spots. Who am I?



I am a mammal found all over Kansas. I look like a large dog that eats mice and rabbits. Who am I?



An amphibian with a dark body covered with yellow spots. I have a long tail, short legs, and do not live in the water. Who am I?

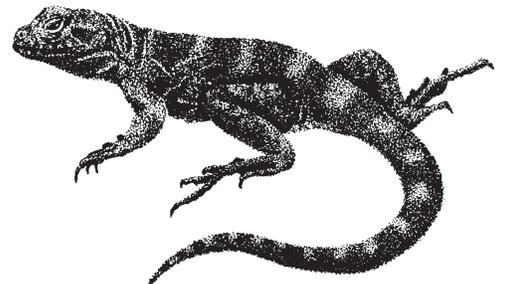
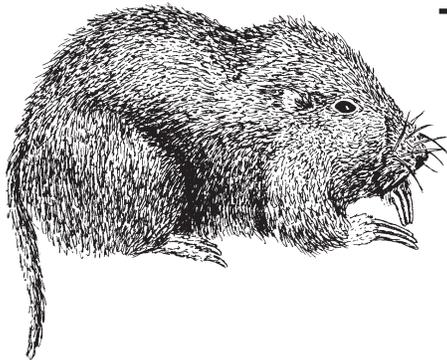
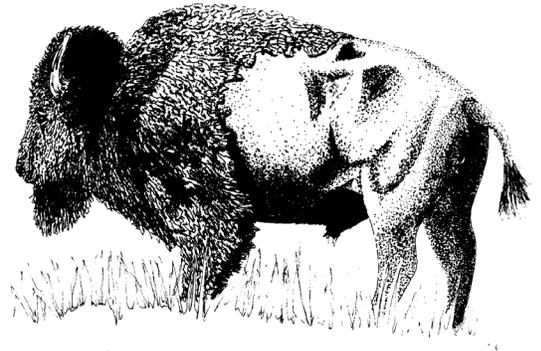
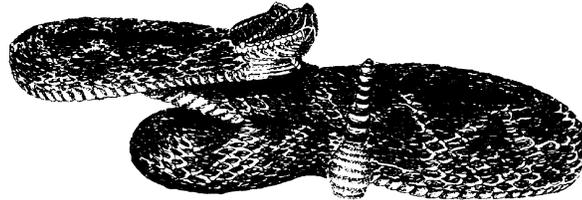
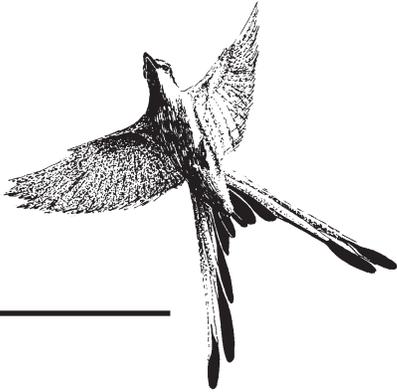


# NAME THE

NAME \_\_\_\_\_

# ANIMAL WITH A LETTER

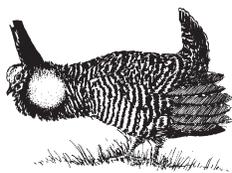
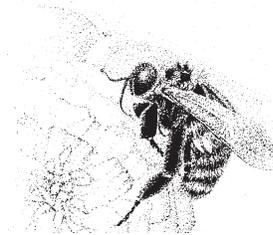
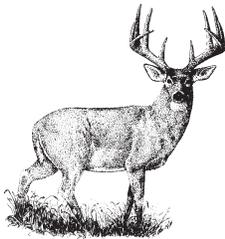
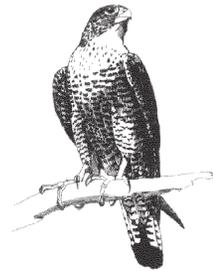
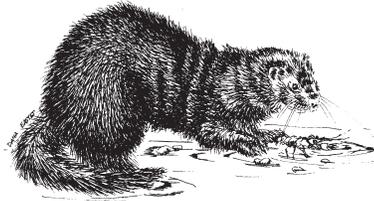
Directions: Locate the animals in your alphabet pages. Place the first letter of the animal's name in the blank.



# SHOWCASING ABC'S, NUMBERS AND WILDLIFE

**Directions:** Combine your studies of numbers, the alphabet and wildlife with a bulletin board featuring Kansas wildlife.

ABCDEFGHIJKLMN  
OPQRSTUVWXYZ



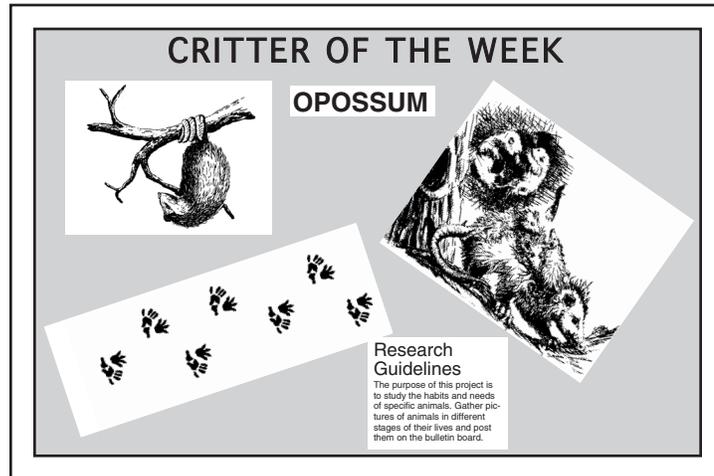
0 1 2 3 4 5 6 7 8 9



# CRITTER CURIOSITY

NAME \_\_\_\_\_

**Directions:** Set up an on-going wildlife investigation study on a bulletin board or at a study center. Choose pictures of the animal you wish to study which depict various activities of the animal, such as food gathering, caring for its young and defensive employment. A list of possible areas to research is given below.



What is the animal's name?

(Give scientific name and common name.)

How would the animal be classified?

(mammal, fish, reptile, amphibian, bird, insect, etc.)

In what habitat would this animal live?

Is the animal a herbivore, carnivore, or omnivore?

What does the animal eat?

What shelter (cover) does it need?

Does it hibernate, estivate, or migrate?

(If so, when and where?)

Is it nocturnal or diurnal?

What is the average number of young it has each year?

What is the average life span?

Is its population increasing or decreasing in your location?

Add any other facts you can find that would interest the class.

At the end of a set period of time collect the researched information and discuss the results with the class. Select a new animal or have an interested student make the selection. Encourage the students to make a presentation to other classrooms.



# ZANY ZOOLOGY

NAME \_\_\_\_\_



An ancient antelope argued with an active ant around Atwood.

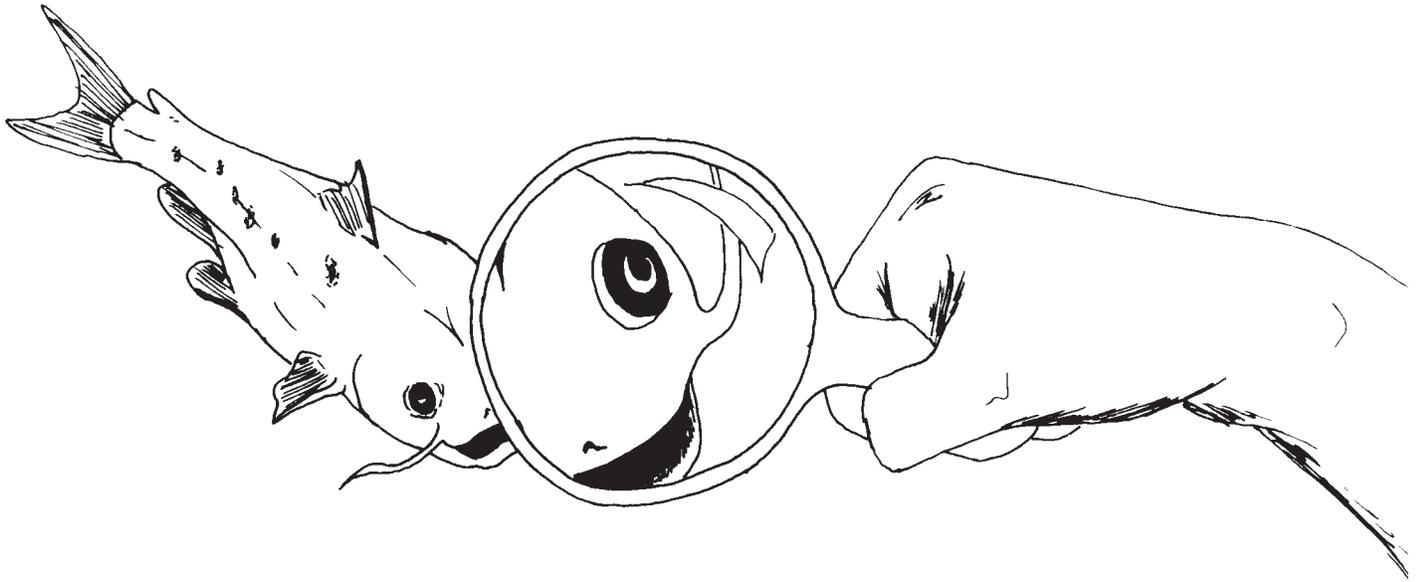
Aa



Bouncing baby bunnies bother bashful butterflies in Burlingham.

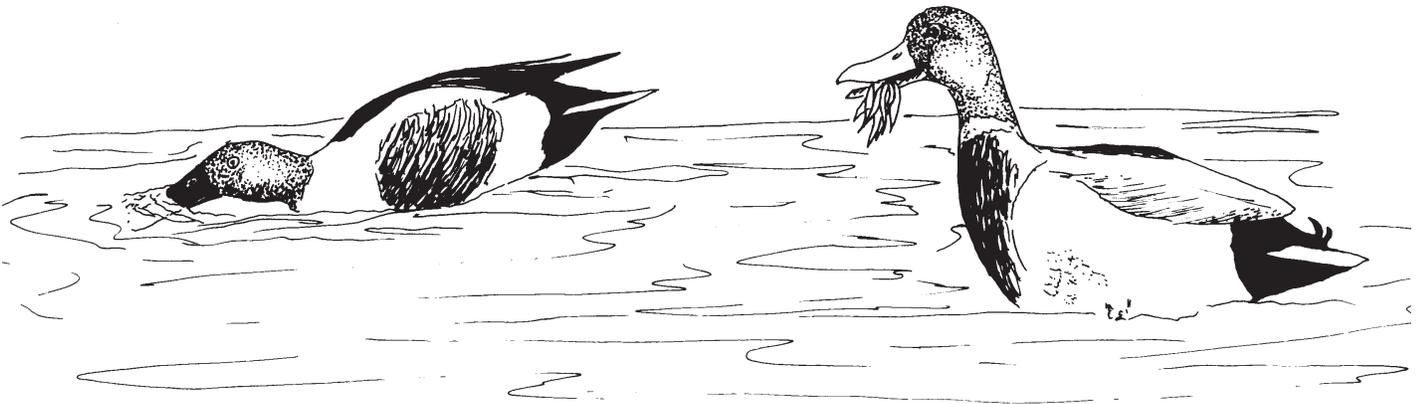
Bb





Can Concordia citizens carefully count catfish close-up?

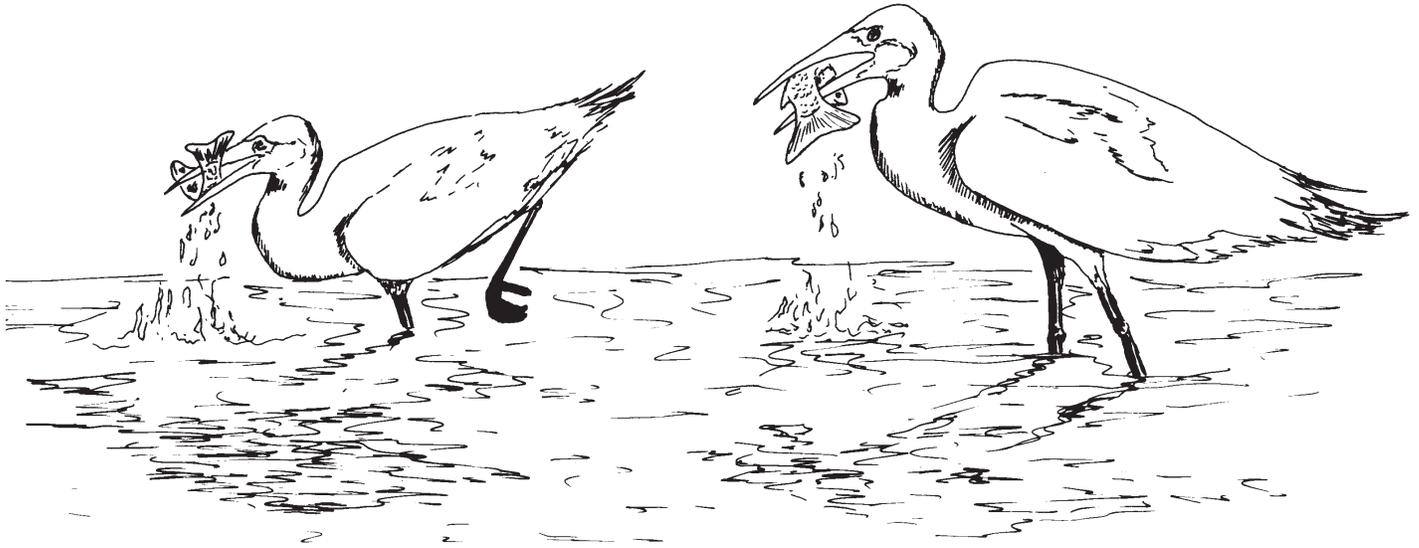
Cc



Dabbling ducks don't drop delicious dinner.

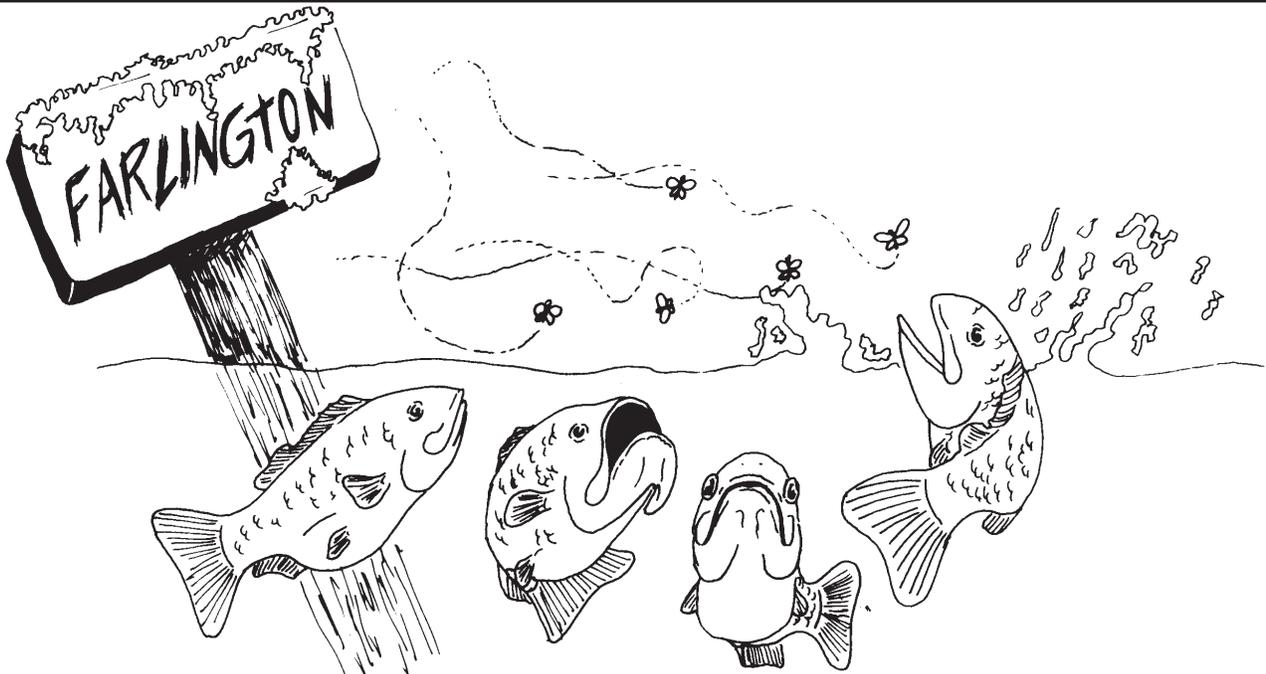
Dd





Emporia's elegant egrets eagerly eat everything.

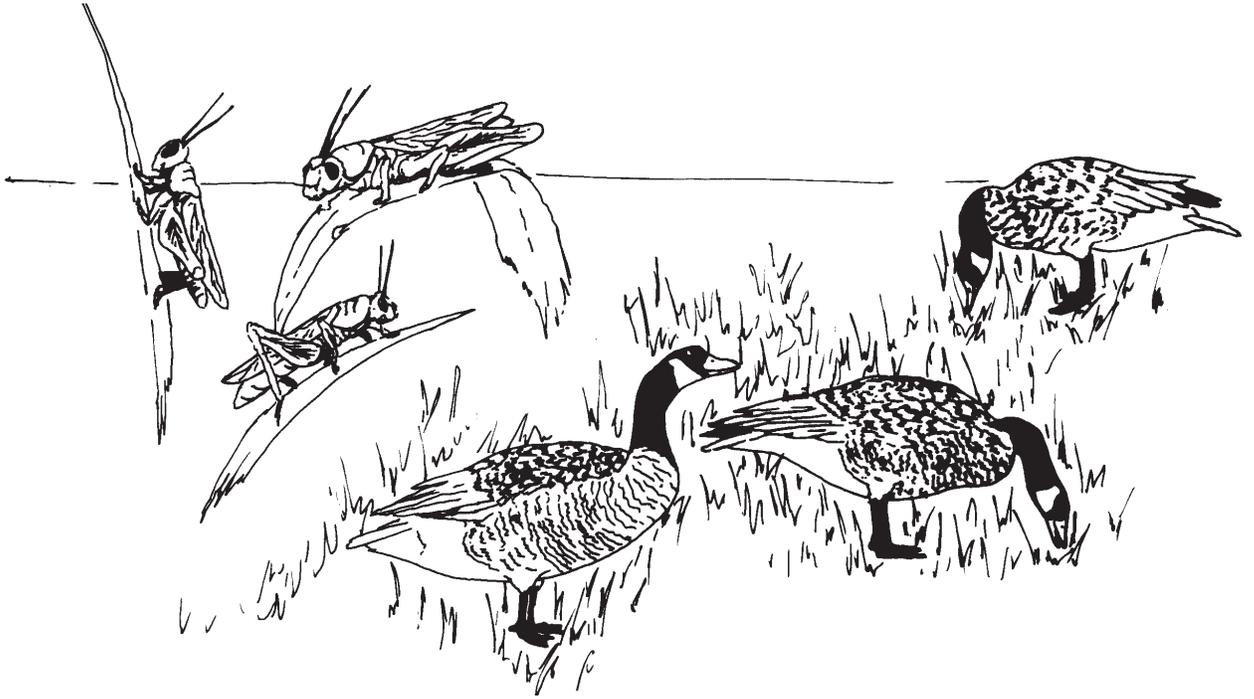
Ee



Four fat fish found five flies from Farlington.

Ff





Grasshoppers gobble grass, but geese get them in Great Bend.

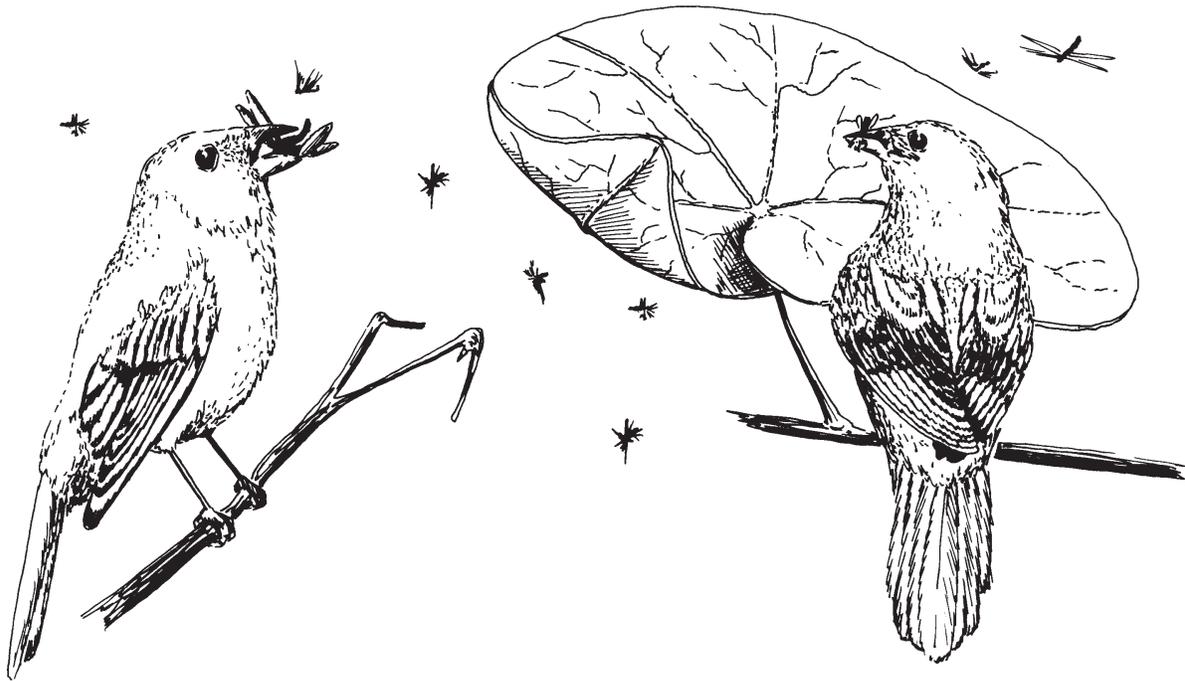
Gg



Happy hunters have hearts.

Hh





Indigo Buntings ingest invading insects in Iola.

Ii



Jumping juvenile jack rabbits jointly jog jubilately towards Junction City.

Jj





Keen-eyed kestrels knowingly kick-up katydids in Kingman.

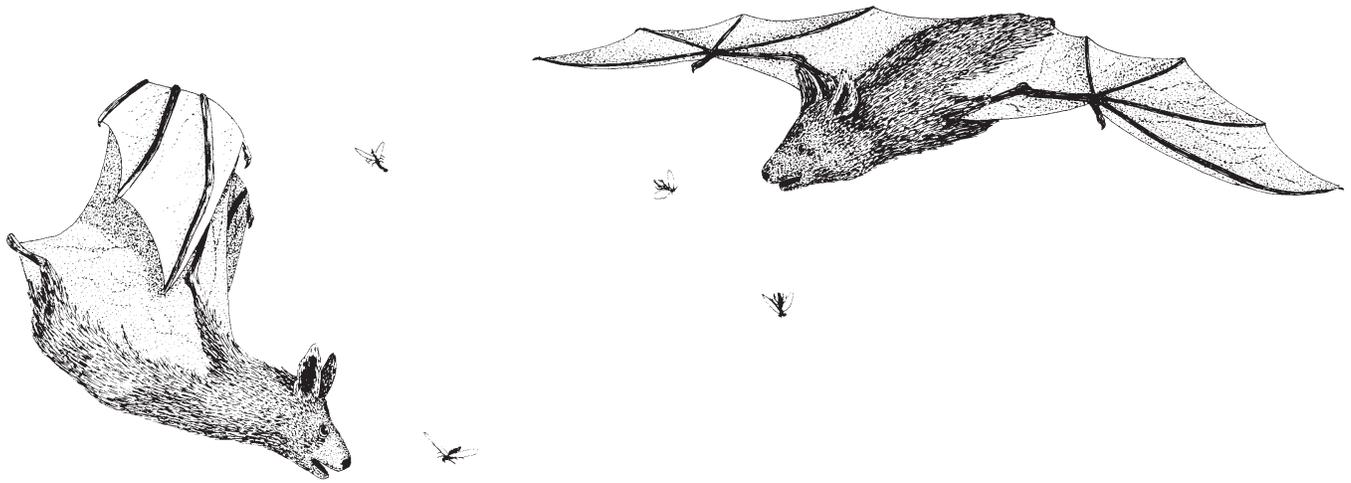
*Kik*



Lazy largemouthed lizards lounge in Lawrence.

*Ll*





Mighty myotis munch merrily on menacing mosquitos at Milford.

Mmm



Naturalists never navigate near Newton's nesting nuthatches.

Nnn





Owls observe otters in Ottawa.

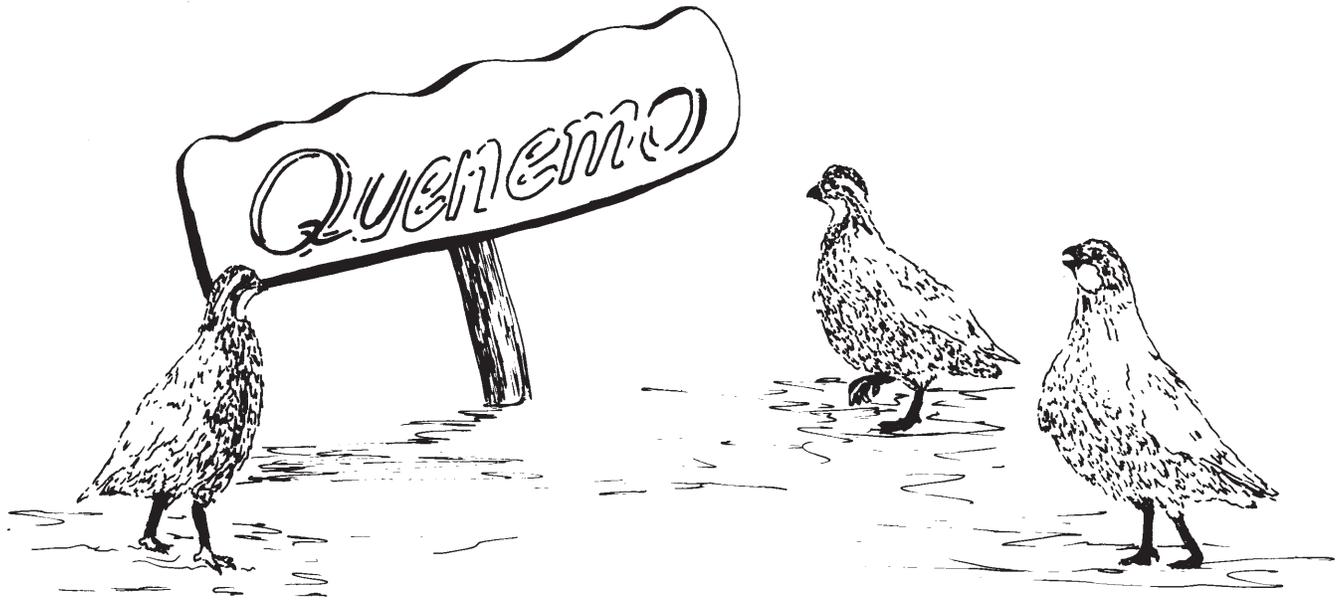
Oo



Peppy prairie dogs perch on peaks in the plains.

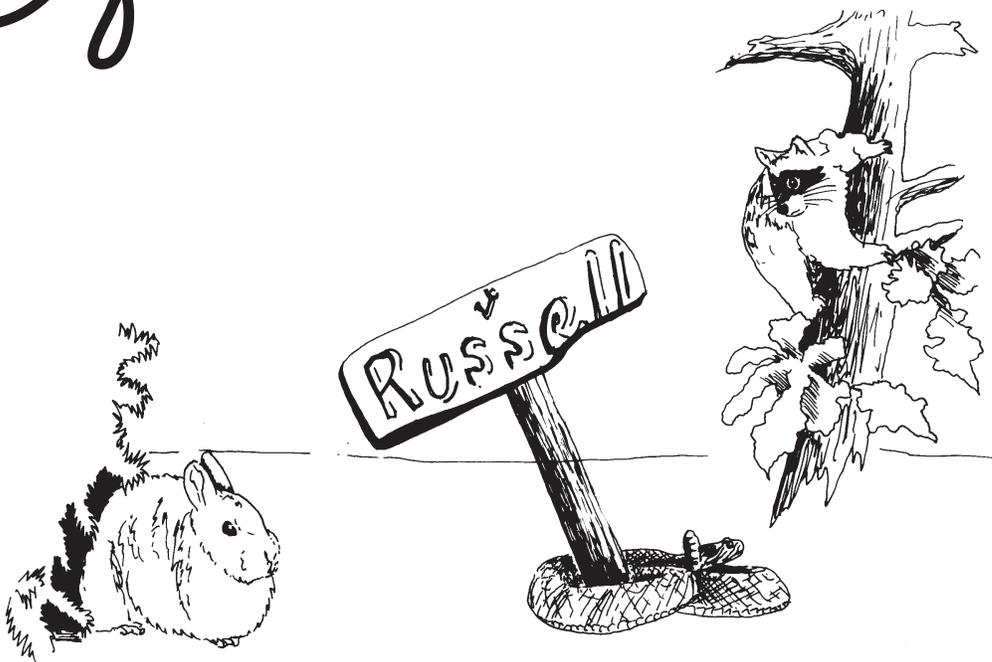
Pp





Quail are quite quaint in quiet Quenemo.

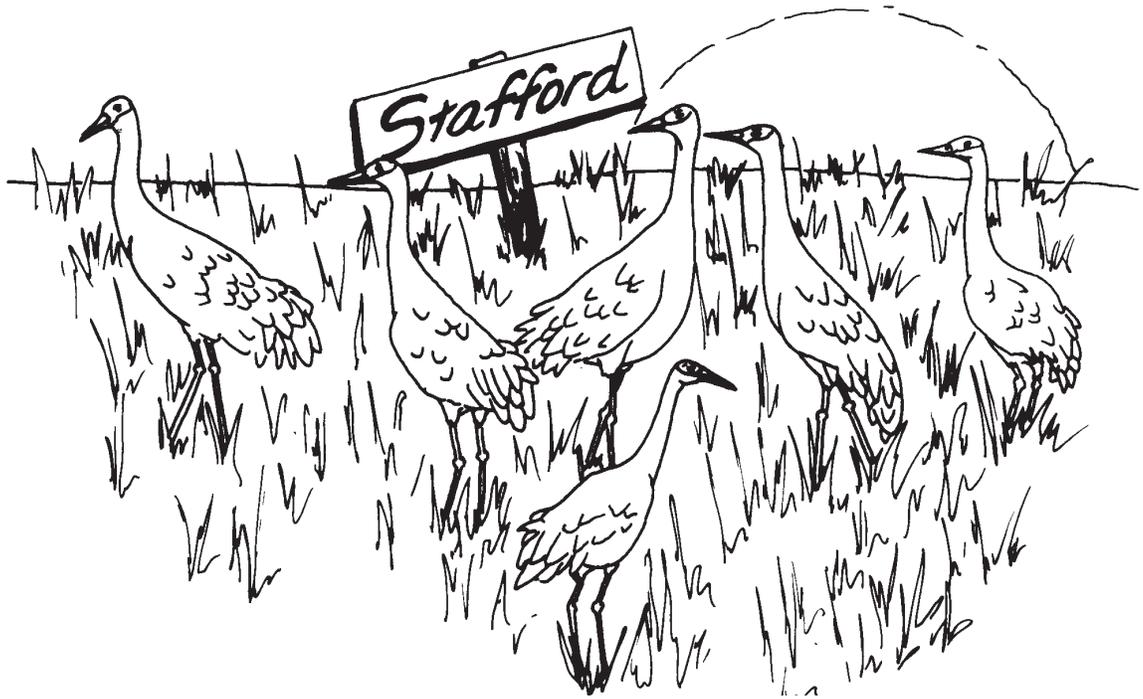
Q q



Raccoons, rabbits and rattlesnakes reside in rural Russell.

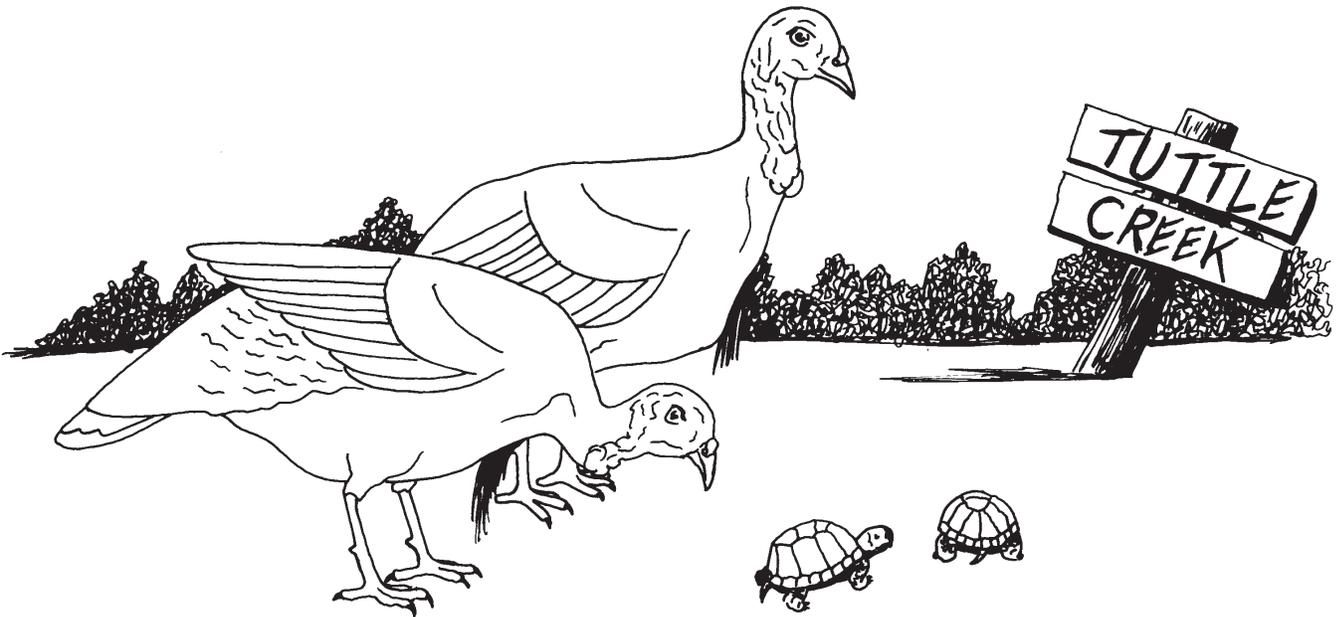
R r





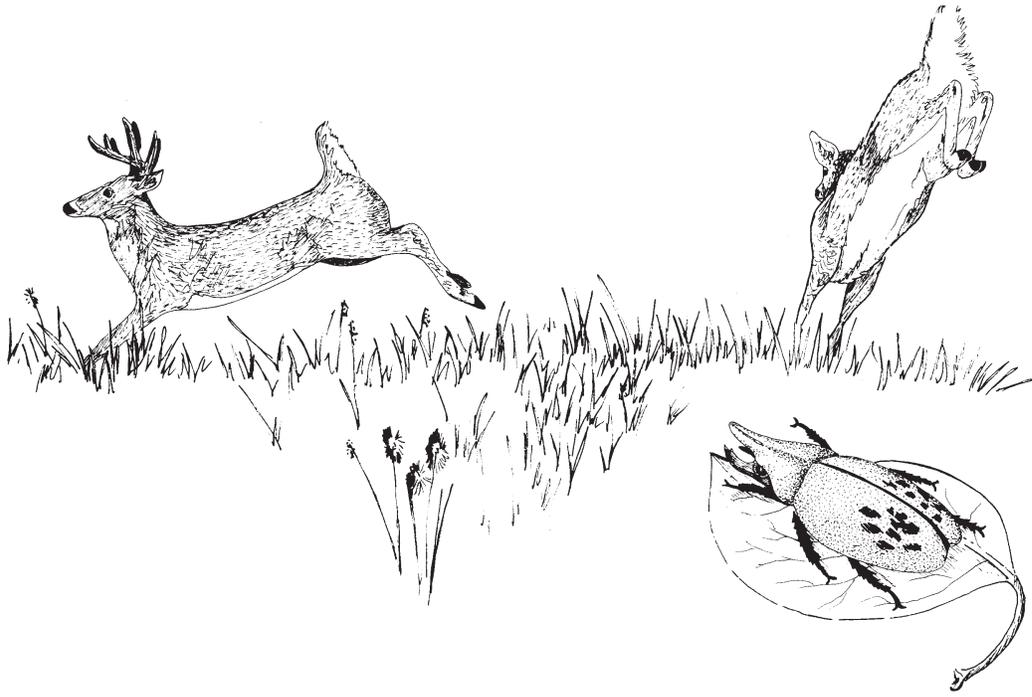
Six sandhill cranes stand stately at Stafford.

Ss



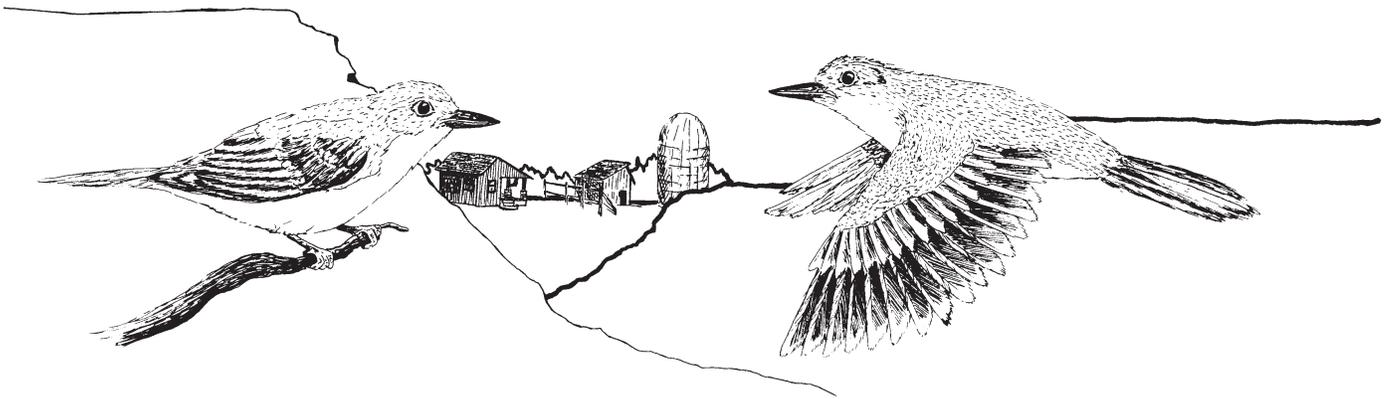
Tom turkeys trip timidly on two tiny turtles trotting towards Tuttle Creek.

Tt



Unusually ugly unicorn beetles upset unsuspecting ungulates.

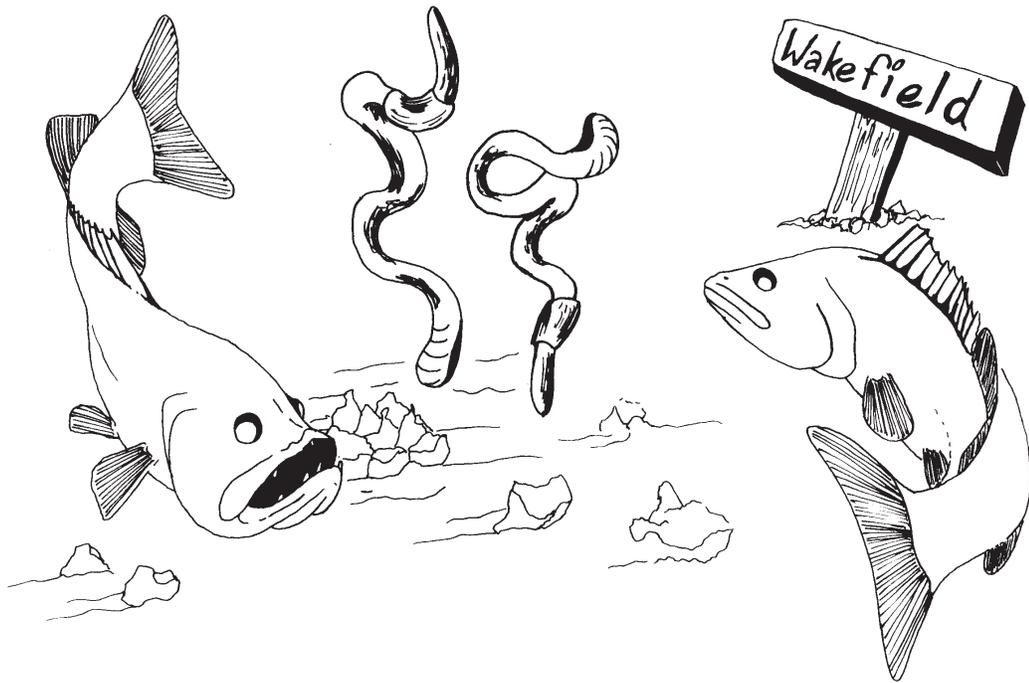
Uu



Very vigorous vireos invade valleys and villages near Vermillion.

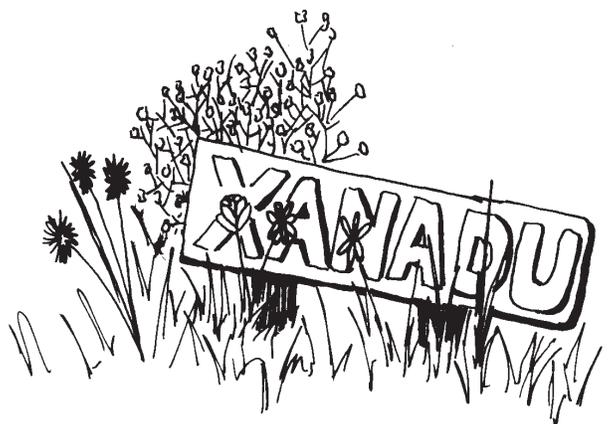
Vv





Wiggly worms wrinkle while wading with Wakefield's walleye.

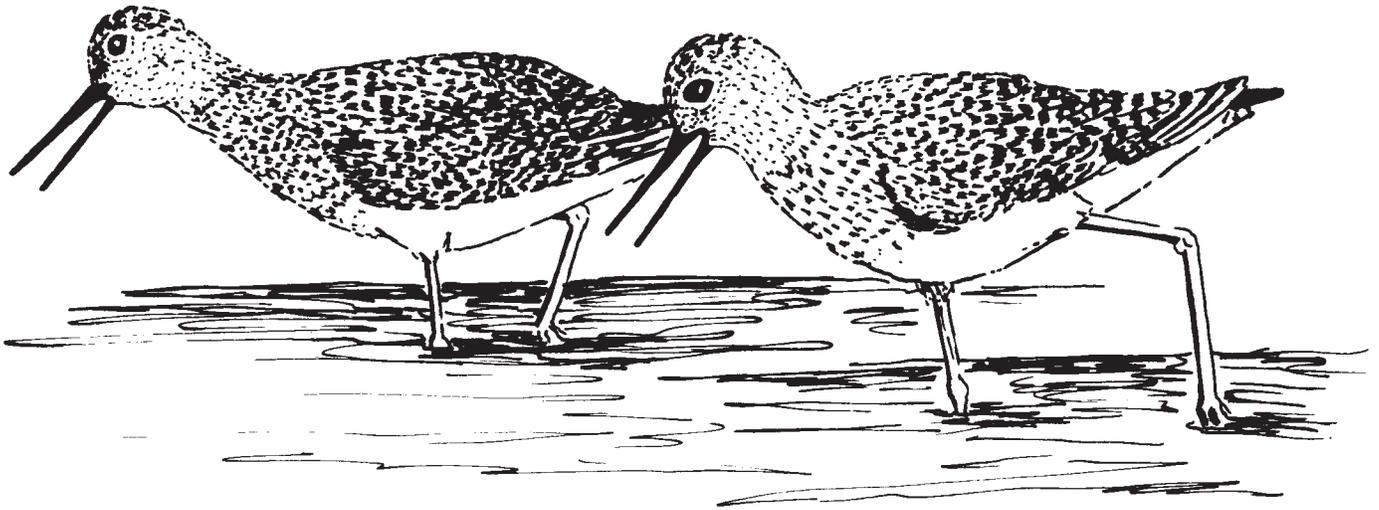
Ww



A Xenophobic *Xanthocephalus* (yellow headed blackbird) stands in Xanadu.

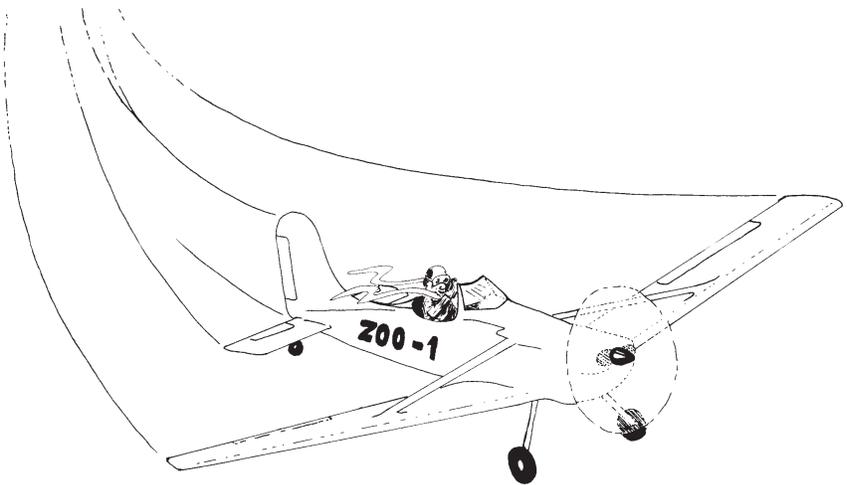
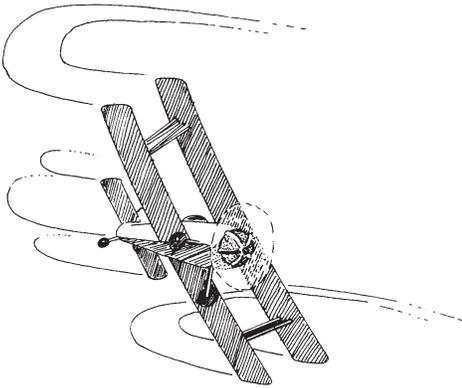
Xx





Yes, young yellowlegs yawned in Yates Center yesterday.

Yy



Zooming zoologists zigzag in Zenda.

Zz



# WILDLIFE'S RAINBOW

NAME \_\_\_\_\_



Red is the color of lady bugs, cardinals, and apples to munch on a warm, fall day. Red sunsets glow on red foxes, red-headed woodpeckers, and Indian blanket flowers on the prairie.



# WILDLIFE'S RAINBOW

NAME \_\_\_\_\_

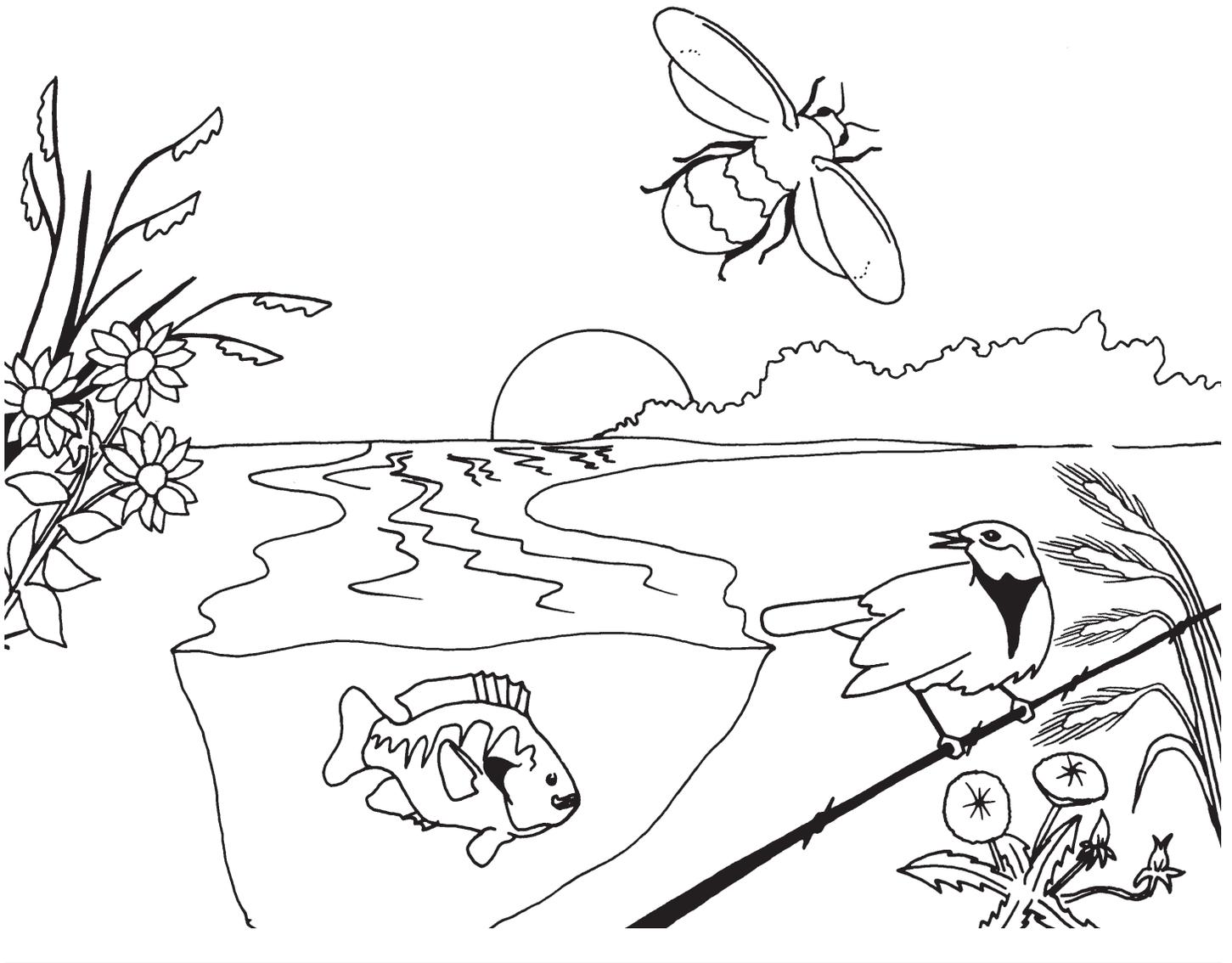


**Blue** is the color of bluejays and bluebirds flying in the sky. A blue racer is near the water where the bluegills and great blue herons live.



# WILDLIFE'S RAINBOW

NAME \_\_\_\_\_



**Yellow** is the color of bumblebees, dandelions, meadowlarks, and dried buffalo grass in the morning light. The sun shines on the sunflowers, wheat, and sun-fish we have in Kansas.



# WILDLIFE'S RAINBOW

NAME \_\_\_\_\_

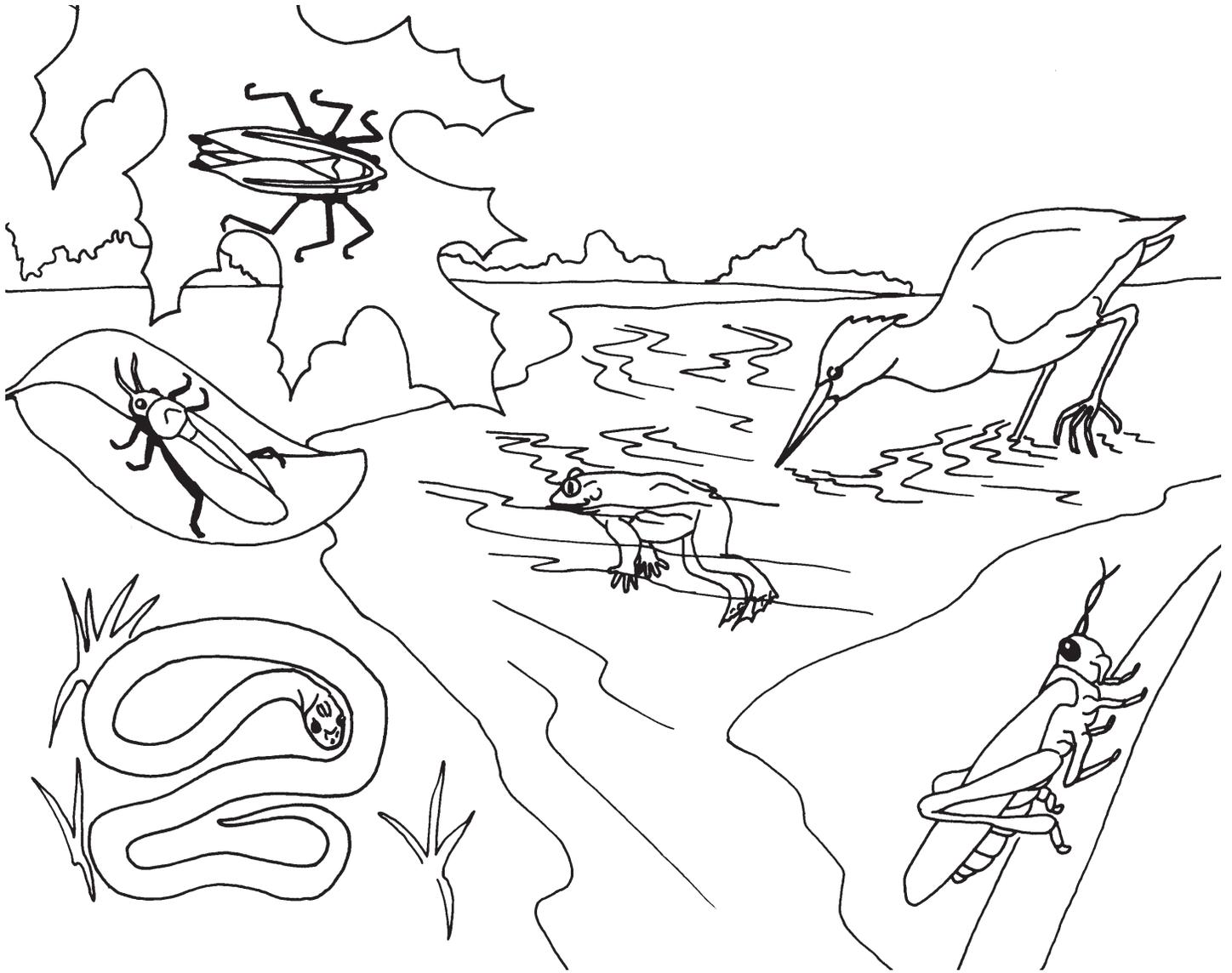


**Brown** is the color of bison, owls, and rattlesnakes that live on the prairie. It is also the color of squirrels, rabbits and deer that jump over branches in the woods.



# WILDLIFE'S RAINBOW

NAME \_\_\_\_\_



Green is the color of grasshoppers and frogs that green herons eat. Leaf hoppers, green snakes, and katydids live near the green leaves and grass.



# WILDLIFE'S RAINBOW

NAME \_\_\_\_\_

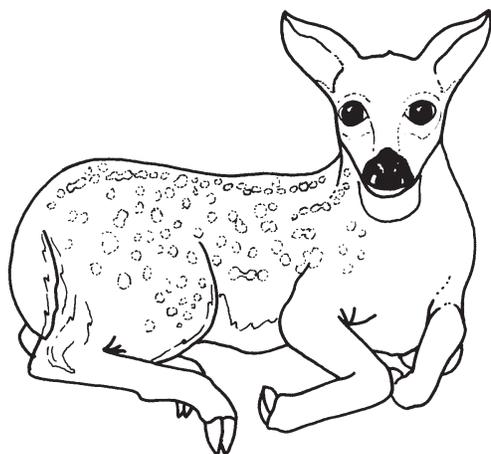
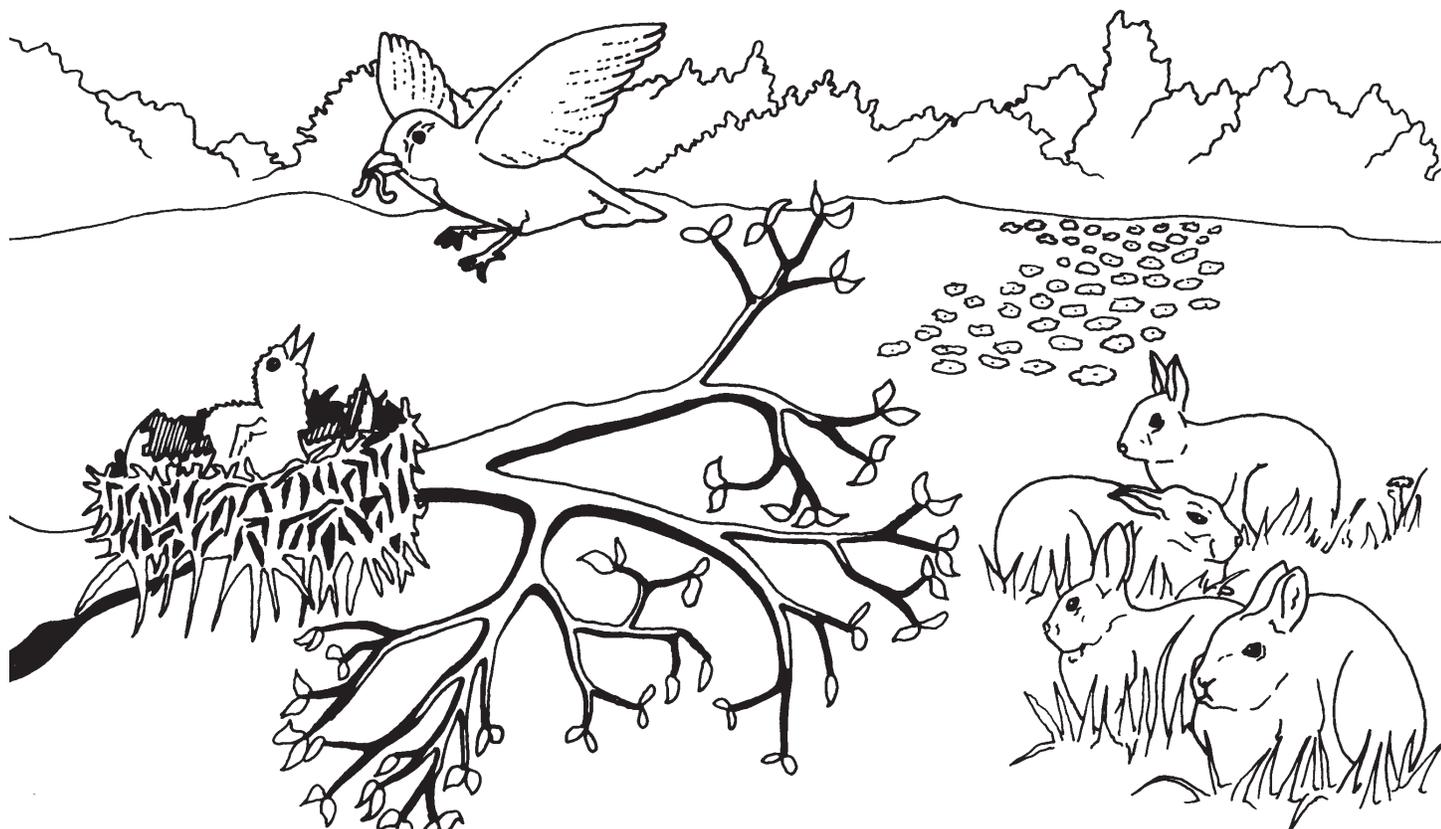


**Black** is the color of a skunk's bushy fur and a caterpillar in the blackbird's beak. Dark, stormy clouds rain on chickadees, crows, and the raccoon's black mask.



# SEASONS MAKE A SCENE

NAME \_\_\_\_\_



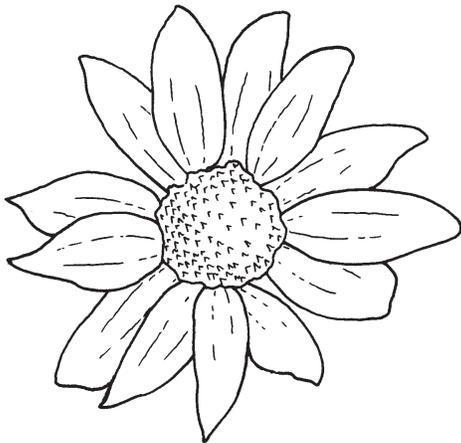
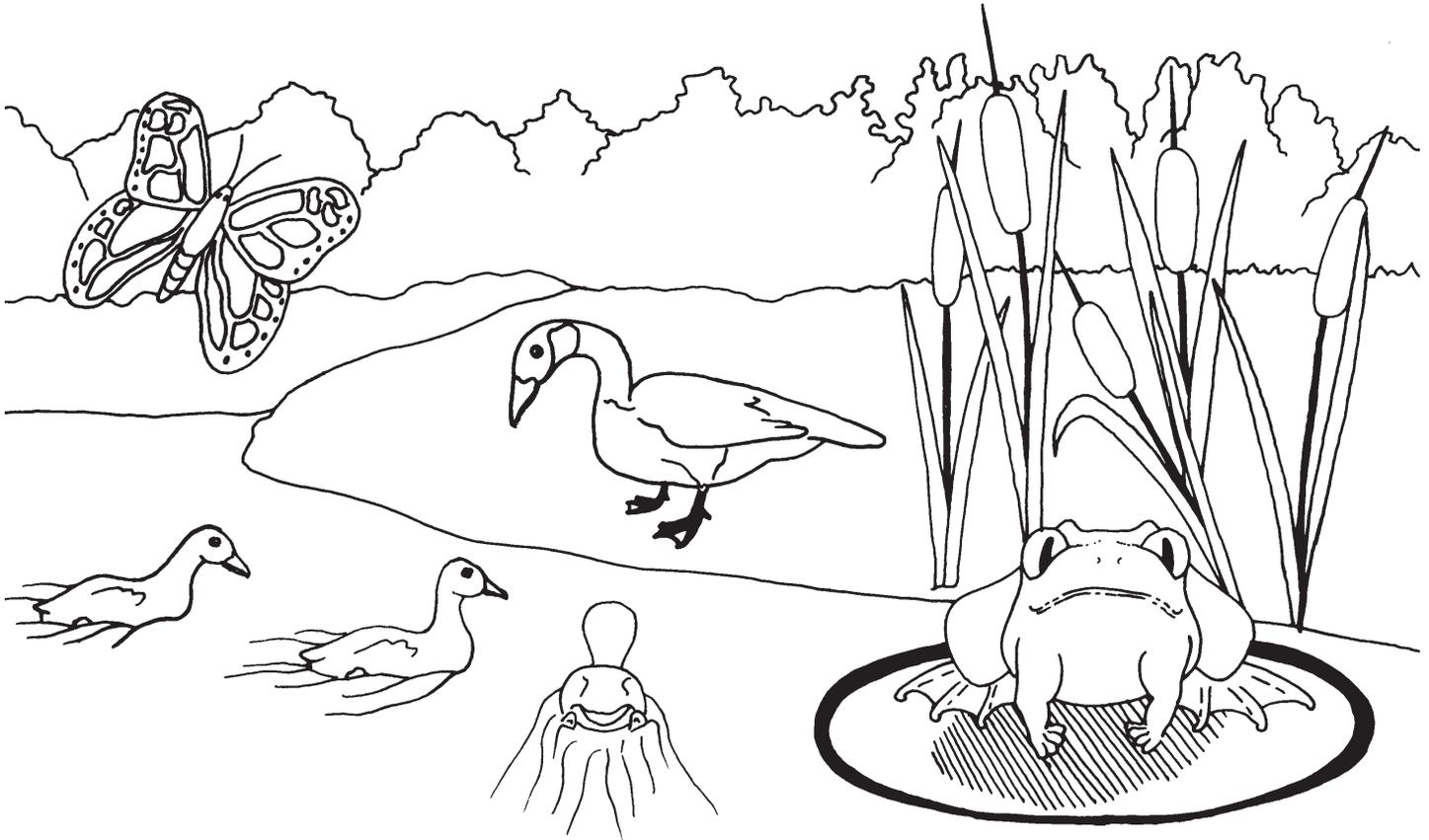
## Spring Fling

Spring brings warmer days, flowers, food, singing birds and animal young.



# SEASONS MAKE A SCENE

NAME \_\_\_\_\_



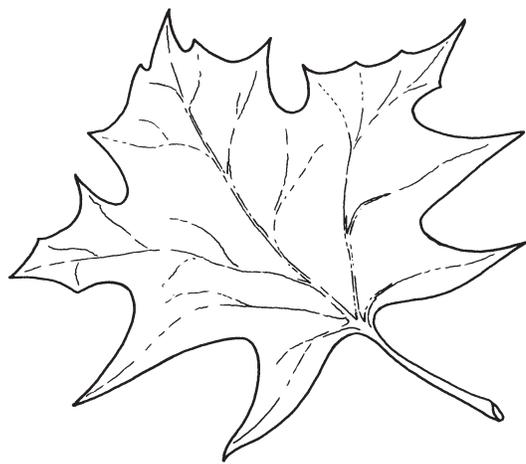
## Summer Sunshine

All things that love the sun are out feeding and raising young.



# SEASONS MAKE A SCENE

NAME \_\_\_\_\_



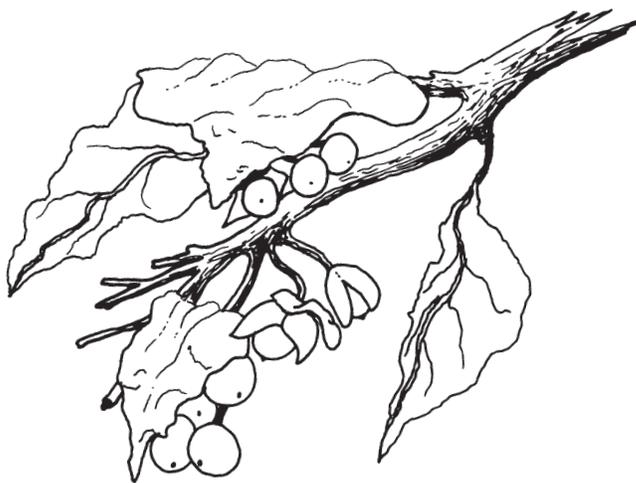
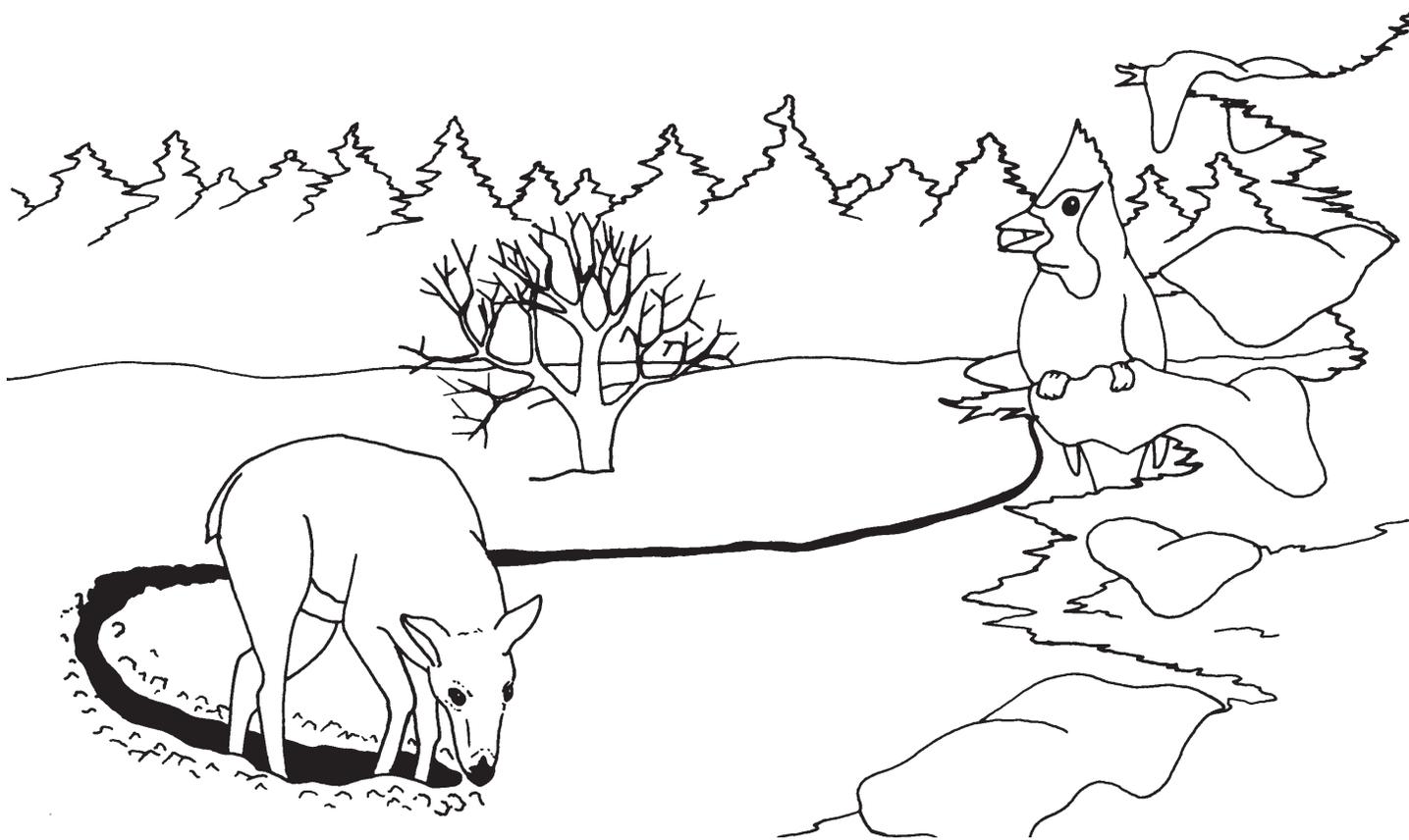
## Frisky Fall Friends

Fall is the time to fatten up and store food for the long, cold months ahead .



# SEASONS MAKE A SCENE

NAME \_\_\_\_\_



## Wildlife in Winter

Eating, sleeping, and staying warm are winter's biggest chores.



# **WILDLIFE IN BOOKS**

Many books have been written about wildlife. Read a book about wildlife and answer the questions below.

**Title of book:**

**Author:**

**Illustrator:**

**Copyright date:**

**Publisher:**

1. Is the story fiction or nonfiction?
2. Name the main characters. What species of animals are in the story?
3. If there are human characters in the story, name them.  
How do the people respond to the animals?
4. What is the setting of the story? When does it take place?
5. Does the story describe examples of habitat? If so which ones?
6. The main character in a story is often the hero or protagonist. Who is the hero/protagonists in your story?

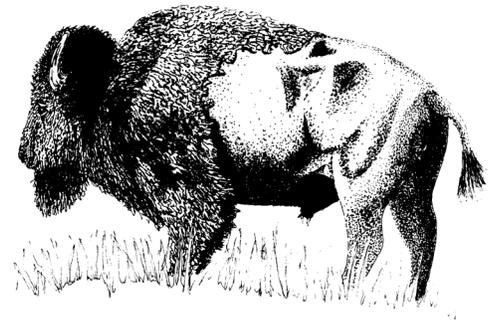
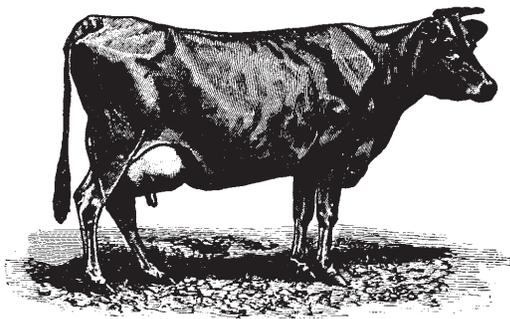




# DOMESTIC Vs. WILD

NAME \_\_\_\_\_

Can you match the domestic animal with its wild counter-part? Draw a line from the domestic animal to the wild animal.



## DOMESTIC

House Cat  
Dairy Cow  
Pig  
Dog  
Horse  
Hamster  
Goldfish  
Domestic Parrot  
Sheep  
Chicken  
Domestic Duck  
Domestic Goose

## WILD

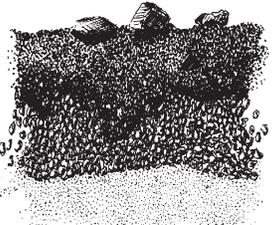
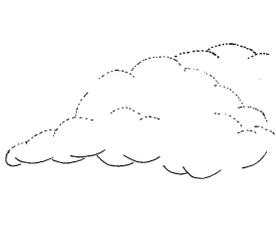
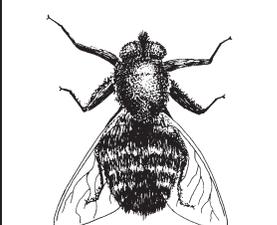
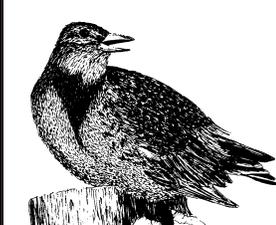
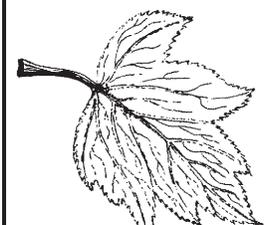
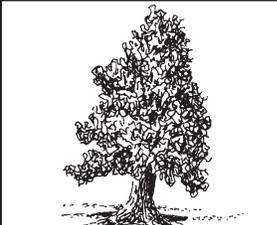
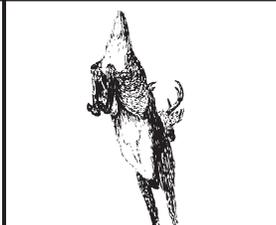
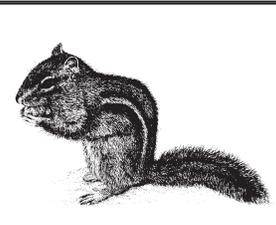
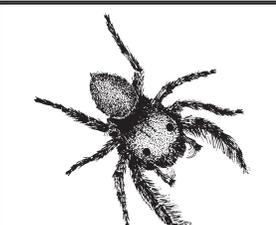
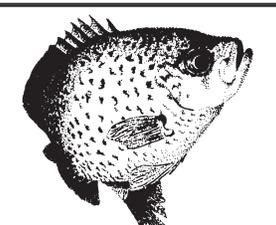
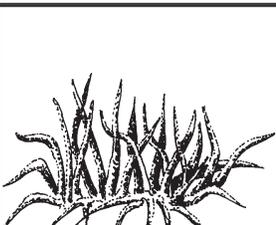
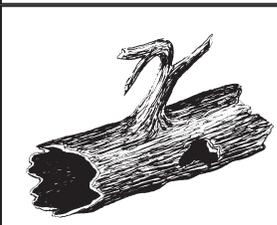
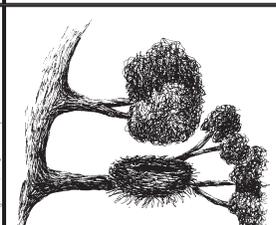
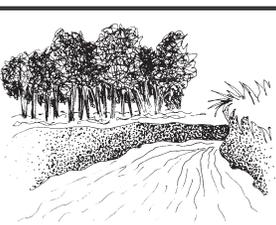
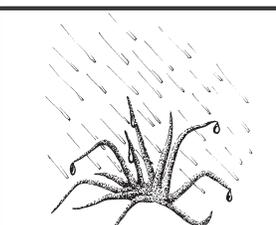
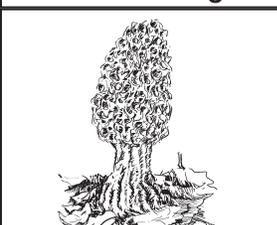
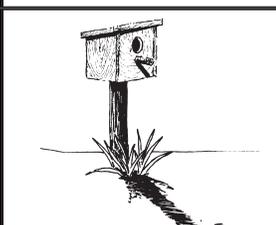
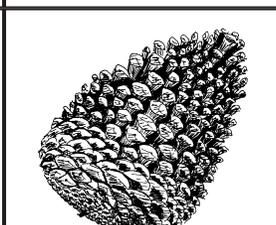
Gopher  
Pheasant  
Mallard  
Bobcat  
Canada Goose  
Bison  
Wild Boar  
Coyote  
Wild Mustang  
Robin  
Carp  
Bighorn Ram



# NATURE BINGO

NAME \_\_\_\_\_

**B I N G O**

 Soil	 Cloud	 Fly	 Bird Singing	 Leaf
 Prairie	 Crawling Insect	 Tree	 Seeds	 An Animal Moving
 An Animal Eating	 Spider	<b>Free</b>	 Butter fly	 Flower
 Fish	 Grass	 Hollow Log	 Hill	 Nest
 Lake, Stream or River	 Rain or Dew	 Mushroom	 Shadow	 Pine Cones

Directions: Check off what you see. You do not need to pick anything.

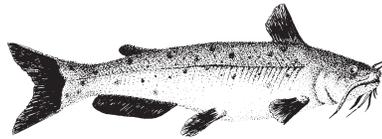
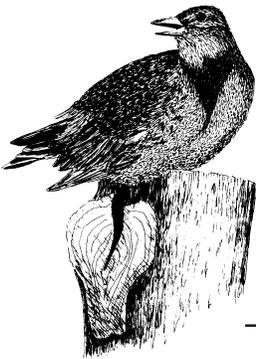


# WILDLIFE MIX

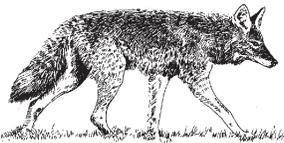
NAME \_\_\_\_\_

# AND MATCH

**Directions:** Match the animal with the sentence that describes it. Print the animal's name in the blank below its picture.



A. It uses its beak and tongue to get its food.

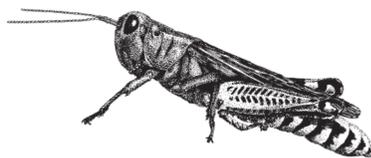
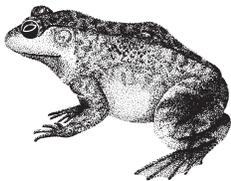


B. A plant-eating insect.

C. An amphibian that eats insects, worms, and snails.

D. A mammal that eats rabbits, mice, and watermelon.

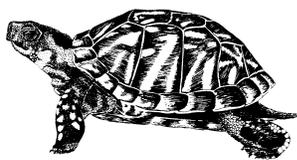
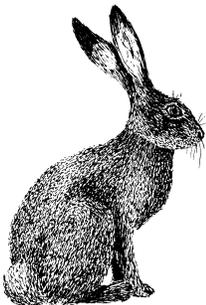
E. This bird eats grain, caterpillars, ants, crickets, and weed seeds.



F. Hunts for meals of scorpions, lizards and snakes.

G. A plant-eater that browses on sagebrush, grasses, and other prairie plants.

H. A small plant-eater that likes clover and grass.



I. A reptile that eats worms, snails, insects, and berries.

J. It feeds on insects and fish by using its sense of smell and taste.



# Key

## What is Wildlife

### MIX AND MATCH - PAGE 10

Coyote - C & 1  
Deer - B & 4  
Raccoons - F & 8  
Skunks - D & 2  
Foxes - A & 6  
Bobcats - H & 7  
Beavers - G & 5  
Rabbits - R & 3

### WILDLIFE RIDDLES - PAGE 18

#### Left to Right:

**Top:** Flathead Catfish, Honey Bee

**Middle:** American Bison, Ornate Box Turtle

**Bottom:** Coyote, Tiger Salamander

### NAME THE ANIMALS WITH A LETTER - PAGE 19

**Top - Left to Right:** flycatcher, rattlesnake, quail, beetle, bison, gopher, lizard

### DOMESTIC VS. WILD - PAGE 47

House cat - Bobcat	Dairy cow - bison	Pig - wild bore
Dog - coyote	Horse - wild mustang	Hamster - gopher
Goldfish - carp	Domestic parrot - robin	Sheep - bighorn ram
Chicken - pheasant	Domestic Duck - mallard	Domestic Goose - Canada goose

### WILDLIFE MIX AND MATCH - PAGE 49

<b>Top to Bottom:</b> Catfish - J	Bullfrog - C
Meadowlark - E	Grasshopper - B
Coyote - D	Rabbit - H
Downy woodpecker - A	Box turtle - I
Burrowing owl - F	Antelope - G

# Habitat

## INTRODUCTION AND RESOURCES

Most plants and animals can not live just anywhere. They must have just the right requirements in the proper amounts. Their habitat must supply these basic requirements of water, food, shelter, and adequate space to carry on necessary activities, such as food gathering, breeding and the raising of their young. Often habitat refers to the wildlife's home, but we must think larger than just a "house". A "home" for wildlife resembles a neighborhood that contains everything wildlife needs to survive. This balance between wildlife and its habitat can be a fragile one. Some species of wildlife would perish if they were moved just a few feet from their natural habitat. A fish out of water would be a good example. Other species of wildlife are more adaptive to different habitats, such as a coyote.

Wildlife can serve as an important indicator of the overall health of a habitat. Little evidence of wildlife in an area indicates the environment is not providing the necessary components to maintain life. The question we need to address is "Why"?

We must also realize we share the same basic needs as wildlife and must derive these from our habitat. Too often, we have altered or destroyed the habitat for wildlife to satisfy our needs for roads, housing developments, shopping centers and areas for croplands. We let our needs override the basic requirements for wildlife. Better planning and awareness is required to reduce the impact our actions have on the natural habitat of wildlife. If we are not careful, the capacity for wildlife to survive will ultimately not be assured.

The following additional resources to available to assist you:



## REFERENCE CENTER

### Game Kits

GK-22	Save the Forest Ecology Game
GK-26	The Pond
GK-56	Animal Habitat Bingo

### Filmstrips

FS-7	Animals in Winter
FS-15A	Animal Homes
FS-17	Places Where Plants and Animals Live
FS-18B	Animals in the City
FS-47	Room to Live—Animal Homes and Territories

### Posters

PP-44	Save Some for Us
PP-72	River of Life
PP-73	Life in a Freshwater Marsh
PP-76	Help Save Their Layers of Life—Rainforests
PP-84	Home is Where the Habitat Is
PP-126	Animal Homes
PP-127	Exploring a Forest Habitat
PP-128	Exploring a Wetland Habitat

### Slide Series

SS-19	The Deciduous Forest—Tall Grass Prairie Ecotone
SS-20	The Ecology of the Prairie
SS-28	Kansas Wildlife and Their Habitat

### Video Tapes

VT-30	Wildlife and the Farm
VT-129	Grasslands of Kansas
VT-168	The Secret of the Pond
VT-169	The Puzzle of the Rotting Log
VT-170	What's in Your Backyard?
VT-172	Life in the City Habitat
VT-173	Down on the Forest Floor
VT-183	3-2-1 Contact: You Can't Grow Home Again
VT-194	Animals That Live in the City
VT-270	Welcome to Our Wetlands

## ON T.R.A.C.K.S. NEWSLETTER

Check the "Species Spotlight" section of each On T.R.A.C.K.S. issue. The following issues are excellent resources for wildlife habitats.

The On T.R.A.C.K.S. Newsletter can be obtained for free by contacting the Wildlife Education Services section of the KS Dept of Wildlife & Parks by writing to C/O WES, KDWP 512 SE 25th Ave. Pratt, KS 67124 or phoning (620) 672-5911 or by E-mail at [ShelbyS@wp.state.ks.us](mailto:ShelbyS@wp.state.ks.us).

<b>The Prairie</b> . . . . .	<b>Vol. 3, No. 3</b>
<b>Winter is WILD!</b> . . . . .	<b>Vol. 5, No. 2</b>
<b>Habitat Sweet Habitat</b> . . . . .	<b>Vol. 6, No. 3</b>
<b>Life in a Pond</b> . . . . .	<b>Vol. 7, No. 2</b>
<b>Kansas Amphibians &amp; Reptiles</b> . . . . .	<b>Vol. 8, No. 1</b>
<b>Kansas Wildlife from the Past</b> . . . . .	<b>Vol. 8, No. 2</b>
<b>Plants &amp; Our Kansas Habitats</b> . . . . .	<b>Vol. 9, No. 3</b>

## PROJECT AQUATIC

ACTIVITY	PAGES	PAGES
	NEW GUIDE	OLD GUIDE
Designing a Habitat	19	20
The Edge of Home	75	68
Pond Succession	66	
Puddle Wonders	114	22
Hooks and Ladders	43	76
Something's Fishy Here	145	176

## PROJECT LEARNING TREE

ACTIVITY	PAGES
Are Vacant Lots Vacant?	153
Picture This	16

## PROJECT WILD

ACTIVITY	PAGES	PAGES
	NEW GUIDE	OLD GUIDE
Classroom Carrying Capacity	9	126
Everybody Needs a Home	59	32
Habitat Lap Sit	61	34
Thicket Game	114	112
Too Close for Comfort	300	254
What Bear Goes Where?	118	98
Wildlife is Everywhere!	51	20

# Habitat ?

## TABLE OF CONTENTS

K-First Grade -	▼
Second Grade -	■
Third Grade -	●

### 51-53 INTRODUCTION

- ● 54 **Quiz:** Circle or write in the correct answer.
- ● 55 **Where Do I Belong:** Place the animal in the right habitat.
- ▼ ■ ● 56 **Habitat Cubes:** Create a habitat cube for the habitats you have studied.
- ▼ ■ ● 57 **Habitat is Essential for Wildlife:** Decide what habitat is best for the animal pictured.
- ▼ ■ 58 **What Do I Need To Live:** One of the four is not needed by the animal- which one is it?
- 59 **Habitat Crosswords:** Solve the crossword puzzle from what you have learned about habitat
- 60 **Interspersed Vocabulary:** A review of your new vocabulary words.
- 61 **Give Wildlife an Edge:** Place the wildlife in the habitat best for them.
- ● 62 **Habitat Word Review:** Choose the best word for the blanks, and find the mystery word.
- ▼ ■ ● 63 **Habitat Bulletin Board Ideas:** Create bulletin boards from what you have learned about the habitats of Kansas wildlife.
- ▼ ■ ● 64 **Wild Bulletin Board Ideas:** Create bulletin boards from what you have learned about Kansas wildlife.
- 65 **ANSWER KEY FOR HABITAT**



NAME \_\_\_\_\_

Score \_ \_

**Directions:** Circle the correct answer or fill in the blank with the correct word(s).

1. Wildlife requires these things, food, water, shelter, from their \_\_\_\_\_ .
2. The bison eats  
A. grass. B. insects C. other animals
3. The flathead catfish finds its food mainly by its  
A. tail B. barbels C. fins
4. This bird has a dark “V” on its yellow chest. \_\_\_\_\_
5. The barred tiger salamander is a/an  
A. mammal B. reptile C. amphibian
6. You would more than likely find a swift fox in what type of habitat?  
A. wetland B. prairie C. forest
7. The ornate box turtle is  
A. very fast B. only dark colored on its upper shell  
C. always with a built-in shelter
8. An interesting fish because of its bill is the A. bass B. carp B. paddlefish
9. Where two habitats come together is called an \_\_\_\_\_ .
10. Shows the links between plants and animals.  
A. species B. conservation C. food chain



# WHERE DO

NAME \_\_\_\_\_

# I BELONG?

Directions: Place the name of the animal next to the habitat in which they are likely to be found.



---

---

---

---

---



---

---

---

---

---



---

---

---

---

---



---

---

---

---

---

- Bison
- Walleye
- Great Horned Owl
- Red-winged Blackbird
- Meadowlark
- Downy Woodpecker
- Mink
- Gray Fox
- Burrowing Owl
- Bull Frog
- Gray Squirrel
- Muskrat
- Prairie Rattlesnake
- Channel Catfish
- Bluegill
- Water Strider
- Small Mouth Bass
- Swift Fox
- Copperhead Snake
- Cormorant



# HABITAT CUBES

**Directions:** Construct a habitat cube for each of the habitats you have studied by cutting out the designs below, along the solid lines, and folding the tabs at the dotted lines. Use glue or tape to secure the tabs together to form a cube.

**Prairie**

- Swift Fox
- Grain
- Prairie Chicken
- Prairie Grass
- Coyote
- Jack Rabbit
- Red-Bellied Snake
- Great Horned Owl
- Squirrel
- Tree
- Insects
- Woodpecker

**Woodland**



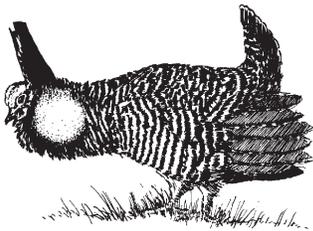
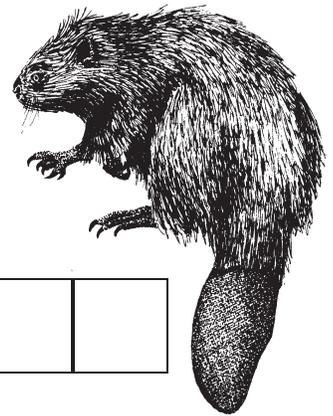
# HABITAT IS ESSENTIAL FOR WILDLIFE

NAME \_\_\_\_\_

**Directions:** Habitat is essential (necessary) in order for wildlife to live. You have learned wildlife can live in many different kinds of habitat. In the blank boxes by each animal write the habitat where you would find this animal.

--	--	--	--

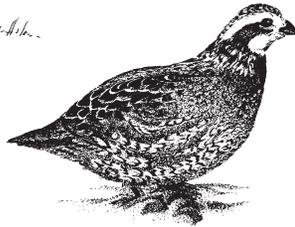
H



--	--

A

--	--	--	--



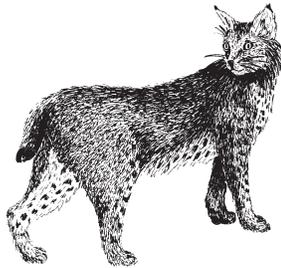
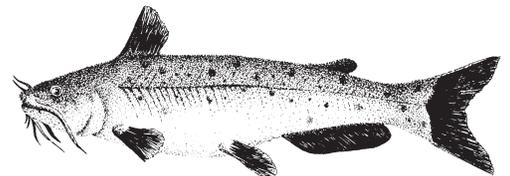
B

--	--	--	--

--	--	--	--	--	--	--

I

--



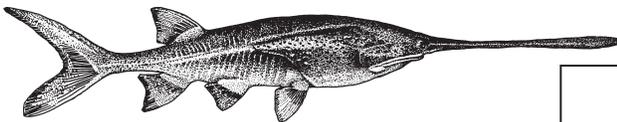
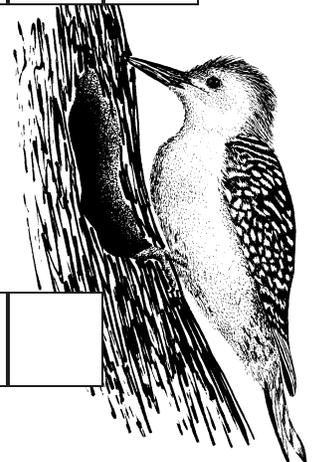
T

--	--	--	--	--

--	--	--	--	--

A

--	--



T

--

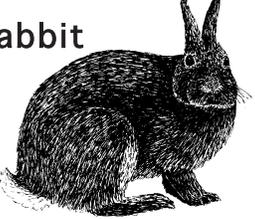
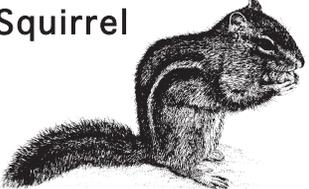
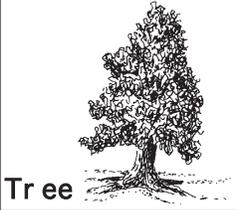
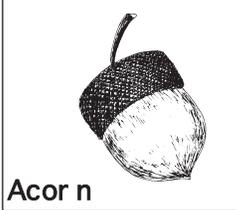
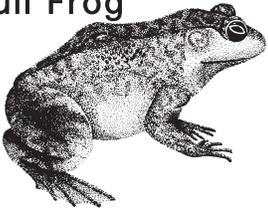
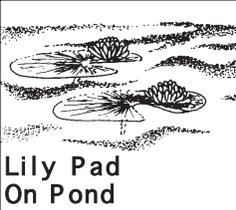
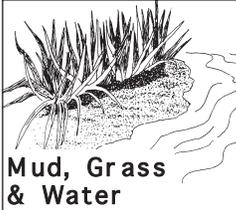
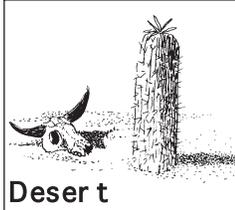
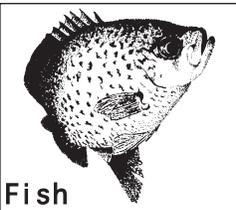
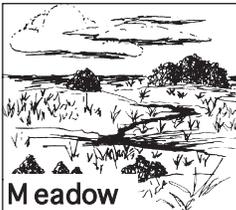
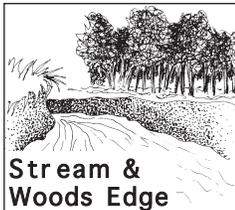
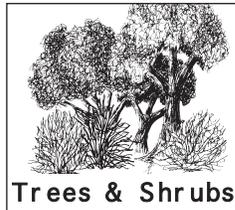
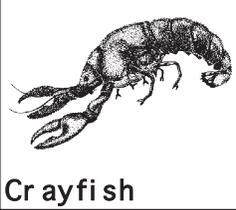
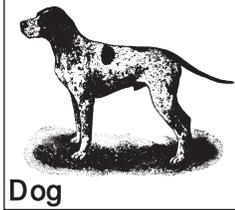
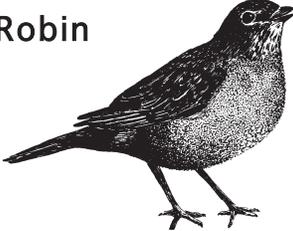
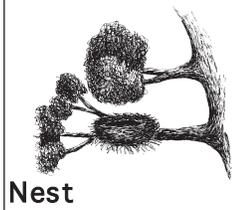
--	--	--	--



# WHAT DO I NEED TO LIVE ?

NAME \_\_\_\_\_

Directions: Place an X over the picture the animal does not need.

Rabbit		 Grass	 Deer	 Shelter	 Water
Squirrel		 Tree	 Acorn	 Air, Grass	 Hawk
Bull Frog		 Lily Pad On Pond	 Mud, Grass & Water	 Desert	 Fly
Deer		 Fish	 Meadow	 Stream & Woods Edge	 Trees & Shrubs
Raccoon		 Crayfish	 Stream Bank	 Dog	 Tree & Den
Robin		 Earthworm	 Insecticide	 Nest	 Trees & Grass



# HABITAT CROSSWORD

NAME \_\_\_\_\_

**Directions:** Habitat is the place an animal lives. See if you can solve the crossword puzzle from what you have learned.

## ACROSS

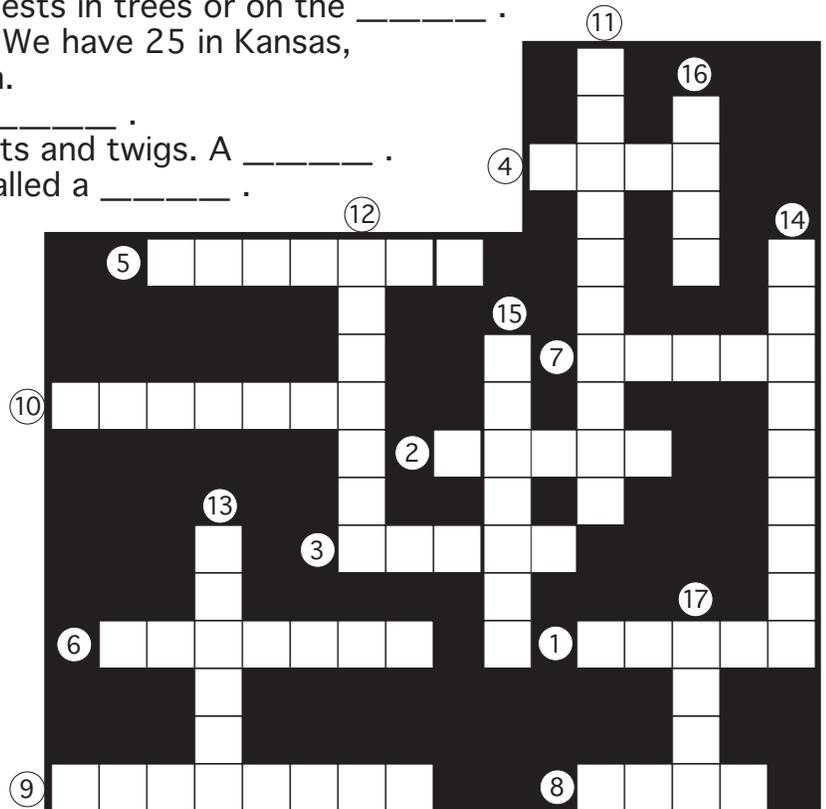
- Habitat must include food, cover, and \_\_\_\_\_ for wildlife.
- The \_\_\_\_\_ is a special combination of water, plants, and land where muskrats and red-winged blackbirds live.
- We must learn to \_\_\_\_\_ the world with wildlife.
- The place where more than one habitat meets another is called an \_\_\_\_\_.  
Many kinds of wildlife can find what they need here.
- Channel \_\_\_\_\_ are popular Kansas fish. The adults like deep water with logs.
- The place where the prairie chicken dances is called the \_\_\_\_\_ ground.
- Cities and \_\_\_\_\_ can be good places for wildlife, too. (Barn owls can live here and be helpful friends.)
- Swift fox have homes called \_\_\_\_\_.
- You might find a great-horned owl in a \_\_\_\_\_ habitat.
- The bird who shows orange sacs on his neck when he dances to find a mate is a \_\_\_\_\_.

## DOWN

- An interesting looking fish that is also called a "spoonbill" because of its unusual bill is the \_\_\_\_\_.
- Pileated woodpeckers eat \_\_\_\_\_ they find by probing in the bark of trees.
- Swainson's hawks will build their nests in trees or on the \_\_\_\_\_.
- A \_\_\_\_\_ is built to hold water. We have 25 in Kansas, and they are great places for fish.
- Grassland habitat is also called a \_\_\_\_\_.
- Many birds build these out of plants and twigs. A \_\_\_\_\_.
- A prairie dog "neighborhood" is called a \_\_\_\_\_.

WATER  
PRAIRIE  
SOIL  
DENS  
NEST  
TOWN  
GROUND  
HABITAT  
PRAIRIE CHICKEN  
SHELTER  
BOOMING  
TRACKS

WOODLAND  
INSECTS  
RESERVOIR  
CATFISH  
PADDLEFISH  
MARSH  
EDGE  
ECOLOGY  
FARMS  
SHARE  
FEATHERS  
BURROW



# Interspersed Vocabulary

NAME \_\_\_\_\_

**Directions:** You have been introduced to numerous new words. How well can you do on this vocabulary review?

- The number of animals a particular habitat can support at a given time is called
  - limiting factor
  - arrangement
  - carrying capacity
  - distribution.
- The essential ingredients for a healthy habitat are
  - water, food, predators, and prey
  - food, water, cover, and space
  - food, water, space, and interspersion
  - natality, mortality, migration, and surplus
- When two or more different habitats meet each other they form a/an
  - edge
  - shelterbelt
  - arrangement
  - overcrowding
- The natural aging process habitat gradually undergoes is called
  - extinction
  - diversity
  - mortality
  - succession
- The number of animals of a particular species in a certain habitat is called
  - overcrowding
  - population
  - interspersion
  - quantity
- Trees and shrubs that are planted in an arrangement to protect from wind and weather form a
  - shelterbelt
  - fence row
  - brushpile
  - roadside ditch
- The quantity of wildlife above the carrying capacity is called
  - overcrowding
  - interspersion
  - surplus
  - distribution
- Animals that hunt other animals for food are called
  - predators
  - prey
  - insects
  - herbivores
- The most common habitat in Kansas and the Great Plains is
  - forest
  - marsh
  - prairie
  - thicket
- The process of adjusting to the changing environment is called
  - migration
  - interspersion
  - distribution
  - adaptation



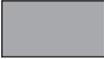
# GIVE WILDLIFE AN EDGE

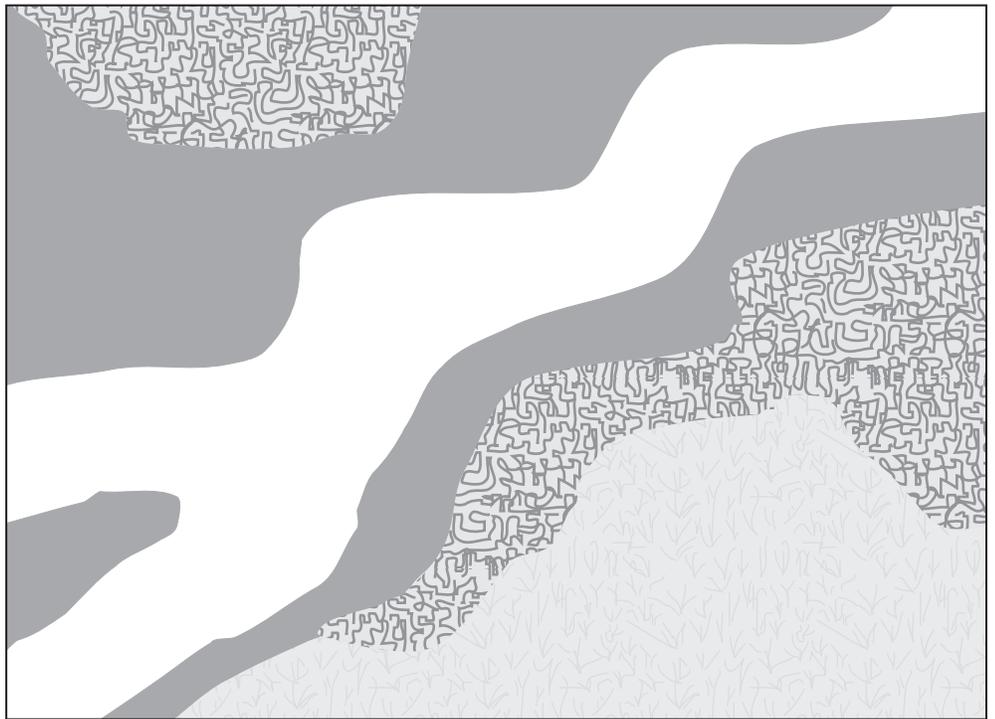
NAME \_\_\_\_\_

**Directions:** Good habitat is necessary for maintaining wildlife. Where two or more habitat types meet is called an edge. Wildlife tends to concentrate near edges where food, shelter, and water are found. Using the symbol for each of the following animals, place them in the illustration below where they might be found.

- Quail - Q
- Beaver - B
- Deer - D
- Hawk - H
- Squirrel - S
- Prairie Dog - PD
- Turkey - T

**LEGEND**

-  Woodland, Timber
-  Stream, Rivers
-  Grassland, Prairie
-  Brush, Shrubs



How would the wildlife above be affected if we changed all the grasslands and brush-lands to croplands?

What species would be the least affected by this change?

What other kinds of wildlife would you find here?



# HABITAT WORD REVIEW

NAME \_\_\_\_\_

**Directions:** Select a word from the list which best fits the blanked space in each sentence. After you have completed each sentence, circle any suffixes or prefixes in the sentence and underline all the compound words.

prairies  
woodland  
cover  
shelter

Kansas  
animals  
habitat  
edge

share  
reservoir  
marshes  
care

1. People who are concerned about their environment  \_\_\_\_\_ enough to think before they change it.
2. Habitat includes food, water and  \_\_\_\_\_ .
3. Wildlife means all wild living  \_\_\_\_\_ .
4. Another name for wetlands, where cattails, muskrats, mink, and red-winged blackbirds live, is  \_\_\_\_\_ .
5. When two or more kinds of habitat meet, they form an  \_\_\_\_\_ .
6. Grasslands, where pronghorn antelope, jackrabbits, and meadowlarks live, are called  \_\_\_\_\_ .
7. A structure built to hold water is a  \_\_\_\_\_ .
8. People need to  \_\_\_\_\_ the world with wildlife.
9. Another name for cover is  \_\_\_\_\_ .
10. Your backyard, playground, school, and house are part of your  \_\_\_\_\_ .
11. A place with trees and shrubs where squirrels, great-horned owls, and pileated woodpeckers live is called a  \_\_\_\_\_ .
12. The state whose capitol is Topeka and has prairie, woodlands, streams, lakes, reservoirs, and marshes for habitat is  \_\_\_\_\_ .

## MYSTERY SENTENCE

**Directions:** Use the letters that are boxed, as they appear, to fill the spaces in the Mystery Sentence.

\_\_\_\_\_ means the wise use of our natural resources.

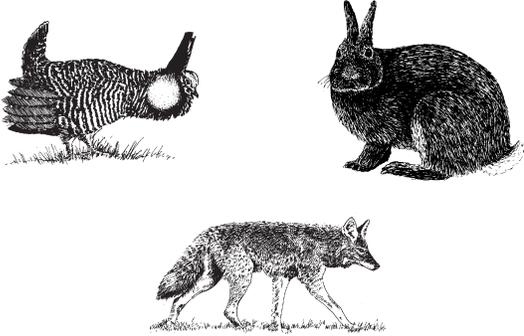
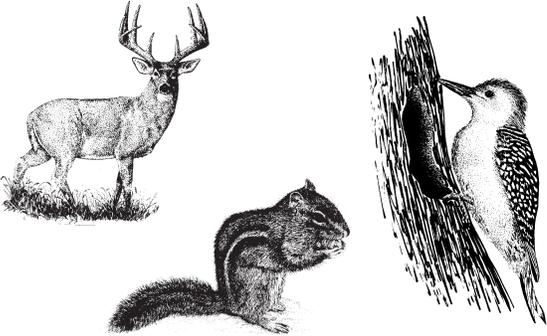
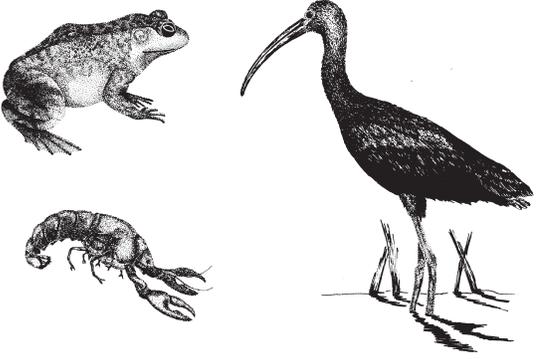
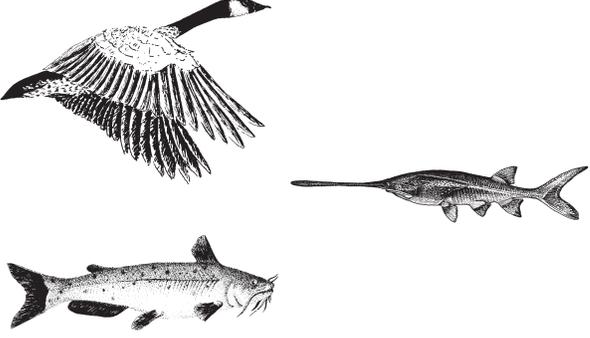
How many smaller words can you make from the mystery word. Write the words on the back of this sheet or on another sheet of paper. You can not use a letter more than once unless it appears more than once in the Mystery word.



# HABITAT

# BULLETIN BOARD IDEAS

**Instructor Directions:** Students put up pictures of animals that are found in each habitat. You may want to have some animals correctly placed to guide the students. Plants may also be included.

 <p><b>Prairie Animals</b></p>	 <p><b>Woodland Animals</b></p>
 <p><b>Marsh Animals</b></p>	 <p><b>Lake, Stream or Reservoir Animals</b></p>



# WILD BULLETIN BOARD IDEA

**Directions:** Cut out illustrations of Kansas wildlife and pin them inside an outline of the state. The basic needs of wildlife surround the map as shown in the illustration below.

**Space**

**Air**

## What we need to live

**Water**

**Home**

**Food**

The illustration shows a central map of Kansas with several wildlife species: a butterfly, a bee, a beetle on a leaf, a rabbit, a skunk, a squirrel, and an owl. Surrounding the map are six circular icons representing basic needs: 'Space' (a landscape with a river and trees), 'Air' (clouds), 'Water' (rain falling from a cloud), 'Home' (a bird's nest with a tree branch), and 'Food' (various types of seeds and grains).

# Key

## Habitat

### QUIZ - PAGE 54

1. Habitat
2. A. Grass
3. B. Barbels
4. Meadowlark
5. C. Amphibian
6. B. Prairie
7. C. Always with a built-in shelter
8. C. Paddlefish
9. Edge
10. C. Food chain

### WHERE DO I BELONG? - PAGE 55

- Woodland - Great horned owl, downy woodpecker, gray fox, gray squirrel, copperhead
- Marsh - Red-winged blackbird, mink, bull frog, muskrat, water strider
- Prairie - Bison, meadowlark, burrowing owl, prairie rattlesnake, swift fox
- Reservoir - Walleye, channel catfish, bluegill, smallmouth bass, cormorant

### HABITAT IS ESSENTIAL FOR WILDLIFE - PAGE 57

Top to bottom: Marsh, prairie, brush, reservoir, timber, woodland, stream

### HABITAT CROSSWORD - PAGE 59

1. Water
2. Marsh
3. Share
4. Edge
5. Catfish
6. Booming
7. Farms
8. Dens
9. Woodland
10. Prairie Chicken

11. Paddlefish
12. Insects
13. Ground
14. Reservoir
15. Prairie
16. Nest
17. Town

### INTERSPERSED

### VOCABULARY - PAGE 60

- 1-C Carrying Capacity
- 2-B Food, Water, Cover, Space
- 3-A Edge
- 4-D Succession
- 5-B Population
- 6-A Shelterbelt
- 7-C Surplus
- 8-A Predators
- 9-C Prairie
- 10-D Adaptation

### HABITAT WORD REVIEW - PAGE 62

1. Care
2. Cover
3. Animals
4. Marshes
5. Edge
6. Prairies
7. Reservoir
8. Share
9. Shelter
10. Habitat
11. Woodland
12. Kansas

# Food Chains & Webs

## INTRODUCTION AND RESOURCES

All food chains or webs start with the sun's energy. Green plants are the only organisms which can transfer sun energy into food. This process is accomplished through photosynthesis. Green plants are called producers and form the base level for all food chains and webs.

Herbivores (plant eaters) are the first level of consumers and occupy the second level in a food chain. The final members of the food chain, the carnivores (meat eaters) represent the last consumer in a food chain. As one traces a food chain, the number of organisms in each group decreases. There must be more green plants than plant eaters (herbivores) and more plant eaters than meat eaters (carnivores). The organisms often decrease in size as one moves through a food chain; it takes a large number of small organisms to support one large organism. As one traces a food chain from level to level a loss of bulk and energy will also be evident. Because of the above factor, a food chain can be represented by a triangle with the wide base represented by producers the (green plants) and the tip being the top (carnivore) consumer.

A food web results when several food chains interact with each other. The following examples illustrate this interaction.

Sun - Tree(leaves) - Caterpillar - Bluebird - Sharp-shinned Hawk  
Leaf Beetles - Spider - Vireo - Bobcat

In both food chains the tree, with its green leaves, serves as the primary producer. The caterpillar and leaf beetle are first level consumers because they utilize the green plant as food. The bluebird, spider, vireo, sharp-shinned hawk and bobcat represents the second level consumers (carnivores). The sharp-shinned hawk and the bobcat being the top consumers in their food chain. The organisms from both food chains will interact with each other. The bluebird can use the leaf beetle as food. The spider can utilize the caterpillar as a food source. Vireos may serve as a food source for the sharp-shinned hawk. Bobcats may also use bluebirds for food. One can substitute other organisms or develop another interacting food chain. (pigweed plant, an inch worm and a praying mantis).

All food chains and webs require decomposers. They break down the dead plants and animals and their waste products into simple chemicals which can be utilized by green plants. Without decomposers, the land and water would be littered with dead plants and animals, life as we know it today would be impossible.

It is important to develop an understanding and respect for the members which makeup a food chain and web as well as their role in capturing and transferring energy

(food) from one organism to another.

We all are members of food chains and webs. Humans can impact and influence a food chain or web like no other organism. When we maintain and improve our food plants with fertilizers, insecticides, and various farming methods we can affect the interactions within a food chain or web. We need to encourage students to look at their role as consumers and the formidable impact we have on our natural resources - the backbone of all food chains or webs.

The following additional resources to available to assist you:

## REFERENCE CENTER

### Books

BK 13-6 Edible? Incredible Pond Life

### Game Kits

GK-8 Predator: The Food Chain Game

GK-12 Oh My Deer

GK-44 Into the Forest:  
Nature's Food Chain Game

### Filmstrips

FS-6E Obtaining Food

FS-15E Ways Animals Get Food

FS-27 Energy and Nutrient in Ecology

### Learning Kits

LK-2 How Animals Get Food

LK-48 Hunting and Predation

### Posters

PP-54 Energy Flow in a Wetland

PP-124 A Food Chain

### Slide Series

SS-23 Mammalian Predators

### Video Tapes

VT-25 Predators of North America

VT-27 Plant-Animal Communities:  
The Changing Balance of Nature

VT-36 Pond Life Food Web

VT-82 Hunters in the Grass

VT-310 Eyewitness: Survival

## NATURE'S NOTEBOOK

### Birds

Bird Feeders C-5 - C-7A

Flying Mousetraps C-17

### Ecological Concepts

Food Web Game E-1 - E-3

## ON T.R.A.C.K.S. NEWSLETTER

The On T.R.A.C.K.S. Newsletter can be obtained for free by contacting the Wildlife Education Services section of the KS Dept of Wildlife & Parks by writing to C/O WES, KDWP 512 SE 25th Ave. Pratt, KS 67124 or phoning (620) 672-5911 or by E-mail at ShelbyS@wp.state.ks.us.

### Food Chains & Webs:

Everything is connected . . . . . Vol. 2, No. 1

Bird Feeding Preferences . . . . . Vol. 4, No. 1

A Pond Food Web . . . . . Vol. 7, No. 2

Owl Pellets . . . . . Vol. 11, No. 1

## PROJECT AQUATIC

ACTIVITY	PAGES NEW GUIDE	PAGES OLD GUIDE
Marsh Munchers	34	58
What are we Eating	83	120

## PROJECT LEARNING TREE

ACTIVITY	PAGES
Nature's Recyclers	75
Pass the Plants Please	50
Tree Lifecycle	302
Tropical Treehouse	160

## PROJECT WILD

ACTIVITY	PAGES NEW GUIDE	PAGES OLD GUIDE
Make a Coat	243	82

# Food Chains & Webs

## TABLE OF CONTENTS

K-First Grade -	▼
Second Grade -	■
Third Grade -	●

66-68	INTRODUCTION
■ ●	69 <b>Predator/Prey:</b> Match the predator with its prey.
▼ ■ ●	70 <b>Food Pyramid Bulletin Board:</b> Construct your own food pyramid bulletin board with the food chains you have made.
●	71 <b>Pyramid Power:</b> Illustrates the placement and numbers of the various organisms found in a food chain.
▼ ■ ●	72 <b>A Mobile Food Chain:</b> Construct your own food chain mobile from paper, string, and glue.
73	ANSWER KEY FOR FOOD CHAINS AND WEBS

# PREDATOR - PREY

**Directions:** Animals which eat other animals for food are called **predators**. The animal which serves as food for other animals is called **prey**. Match the predator to its prey. Predators, in the wild, may use more than one species of prey.

## PREDATOR

Coyote

Walleye

Robin

Praying Mantis

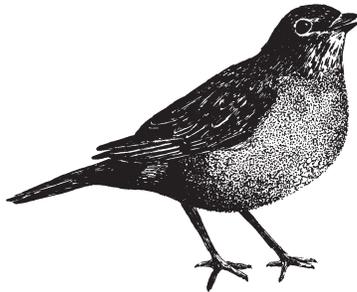
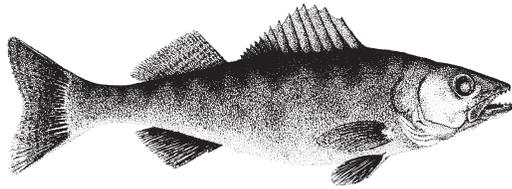
Red-tail Hawk

Leopard Frog

White Bass

Black-footed Ferret

Mountain Lion



## PREY

Aquatic insects

Deer

Prairie Dogs

Small fish

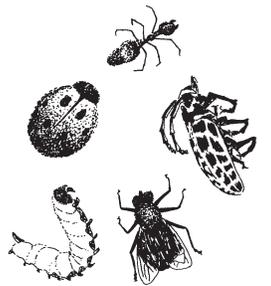
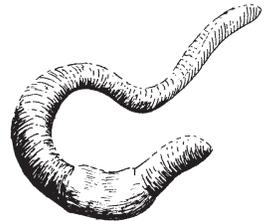
Gizzard Shad

Terrestrial insects

Earth worms

Mice

Rabbits.



Communities of animals require both predators and prey animals to establish a balance in numbers.

Which should there be more of, predators or prey? Why?

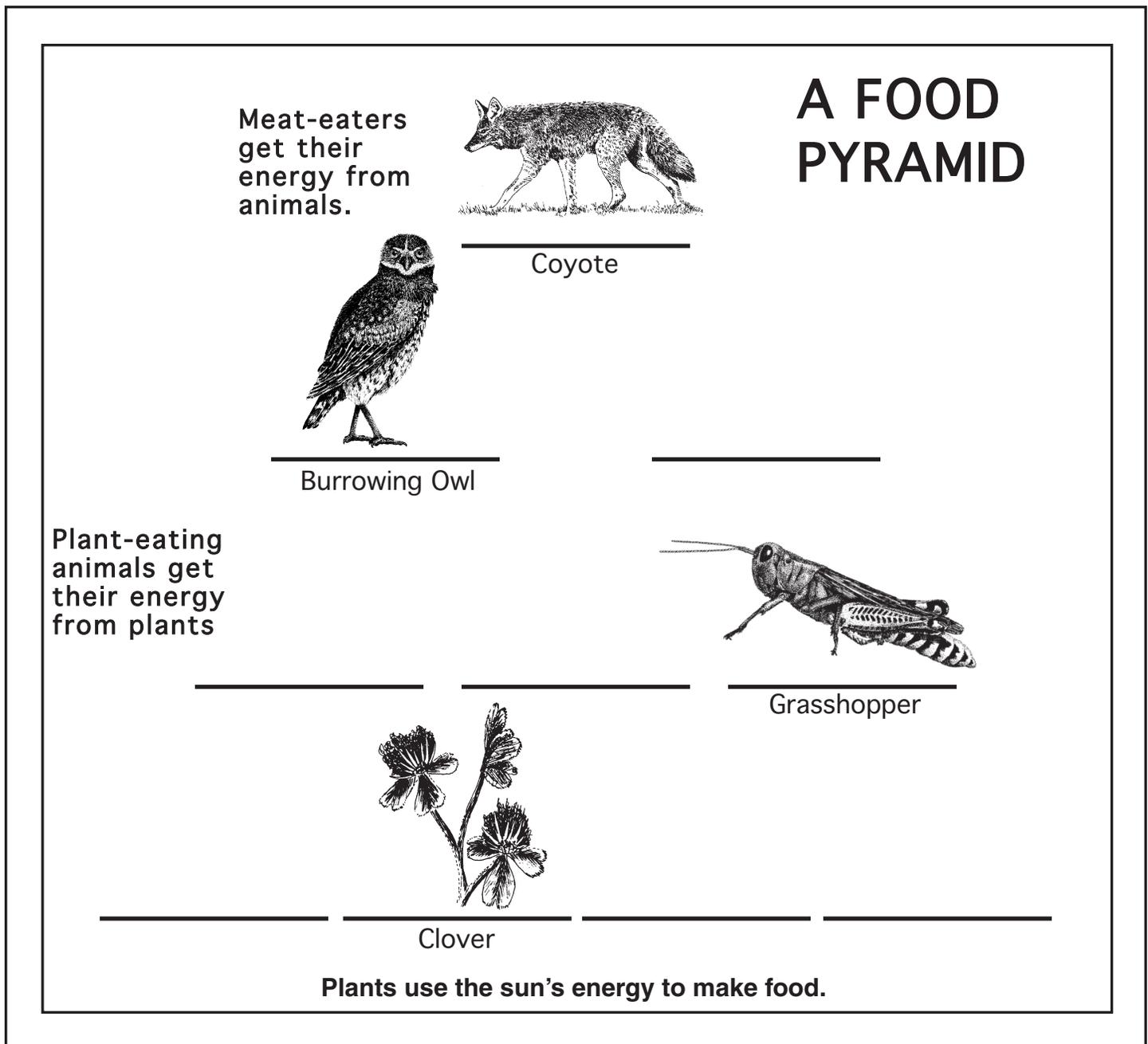
Do predators control prey or are prey animals controlling predators?

Many predators have special adaptations to assist them in capturing prey. Can you think of three such adaptations the predators in the above list have to assist them in their pursuit of prey?



# FOOD PYRAMID BULLETIN BOARD

**Directions:** Use the following as a guideline for a class bulletin board and/or worksheet. Pictures from this booklet may be copied. Nature and outdoor magazines are other good sources for pictures. Students can complete the pictured food pyramid with appropriate animals. Encourage them to construct their own food pyramid.



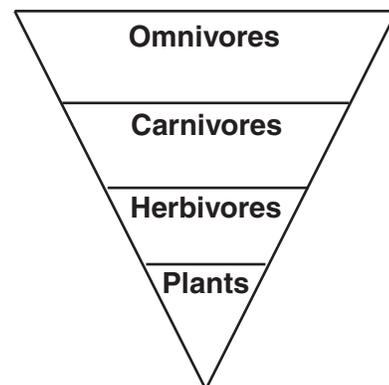
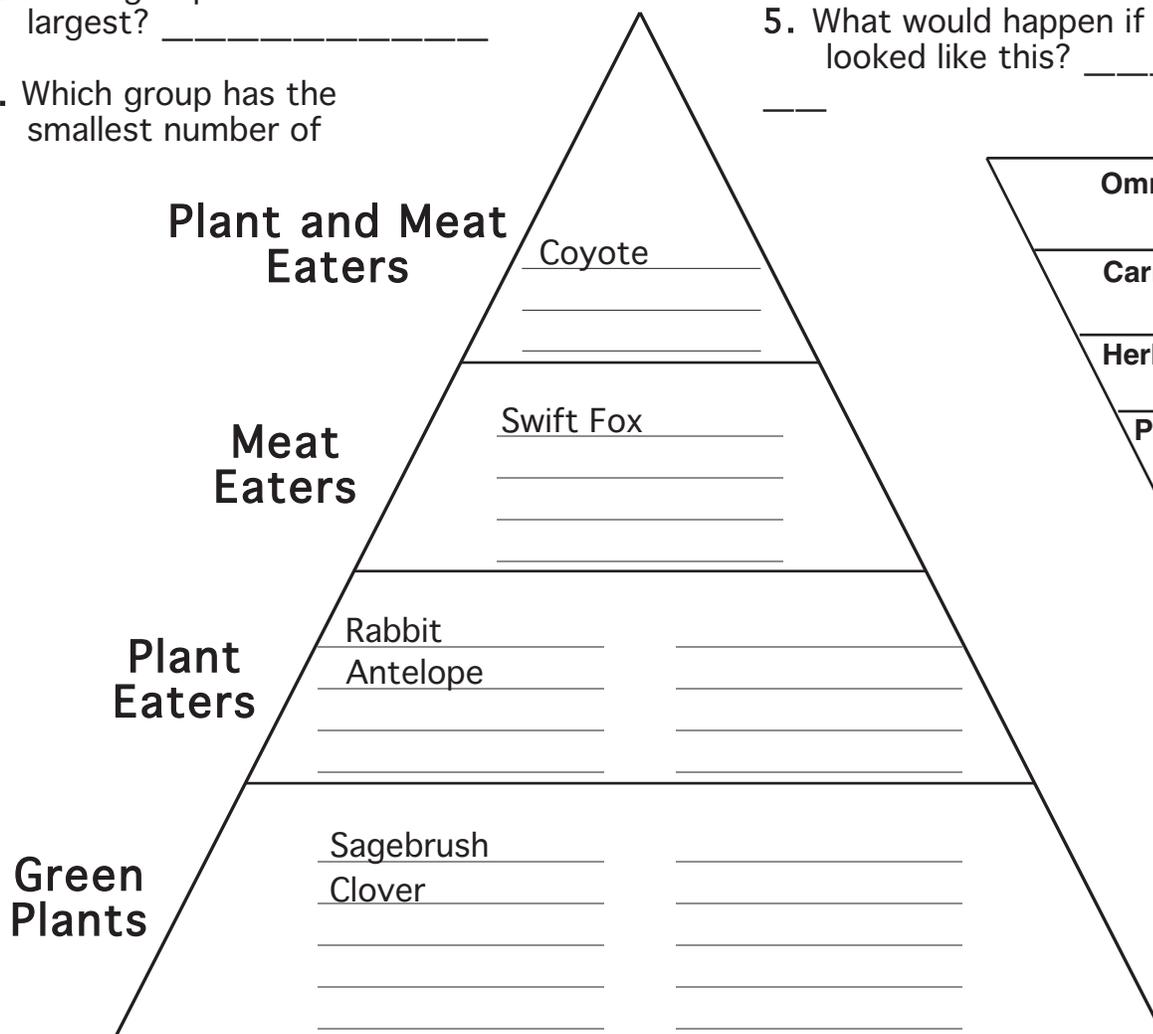
# PYRAMID POWER

NAME \_\_\_\_\_

**Directions:** As you have learned there are many kinds of food eaten by animals. Those that eat plants are called HERBIVORES, the meat-eaters are CARNIVORES, and those that eat both plants and meats are OMNIVORES. A food pyramid illustrates the placement and numbers of the various organisms found in a food chain. One starts with green plants which are consumed by plant-eaters who are eaten by meat-eaters. Fill in the various levels of the food pyramid with as many examples of each you can remember from your studies. A few examples have been given to help you start.

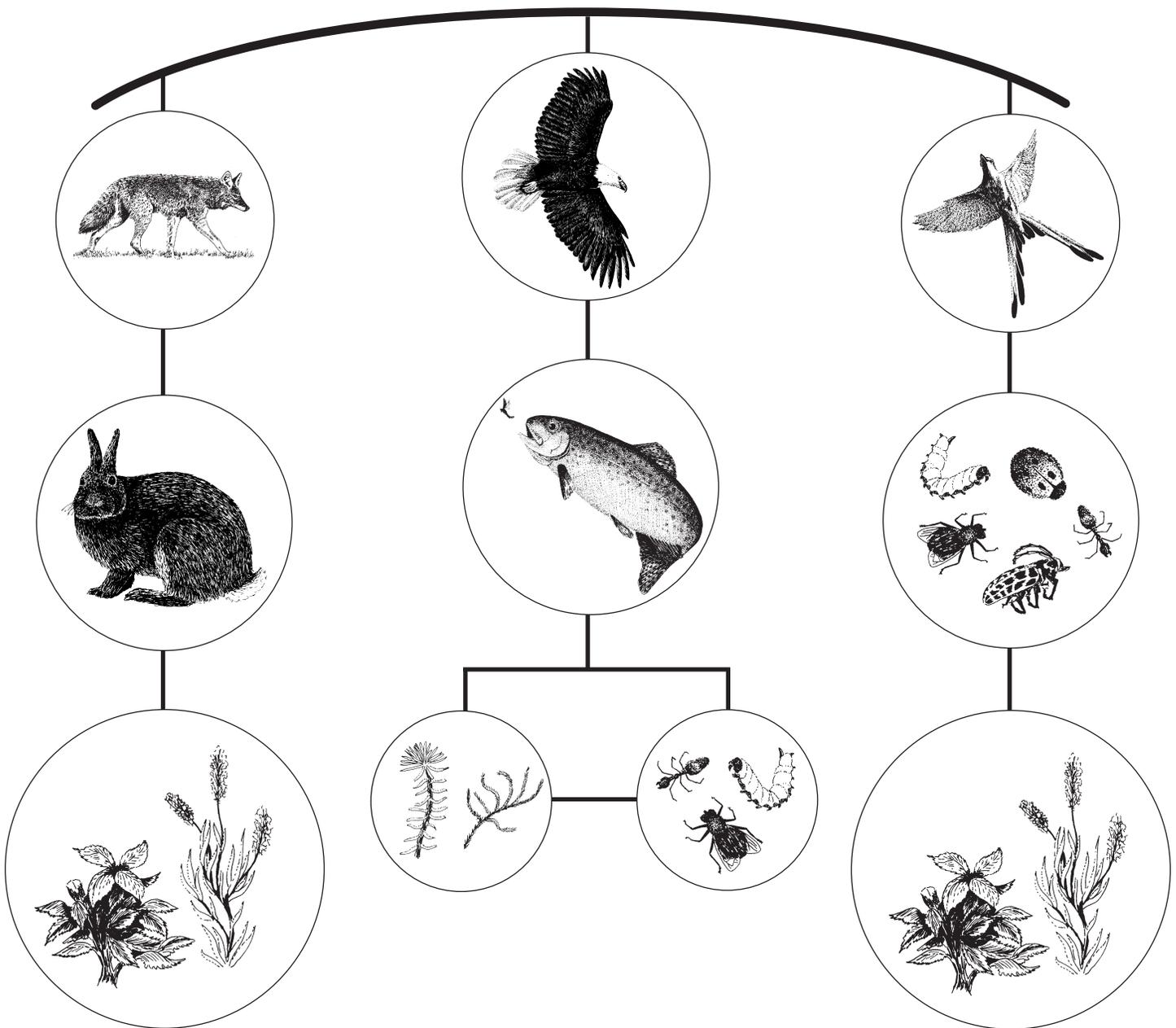
1. Why do you think there are more green plants than any animal group? \_\_\_\_\_  
\_\_\_\_\_
2. Which group of animals is the largest? \_\_\_\_\_
3. Which group has the smallest number of \_\_\_\_\_

4. What is another name for  
plant-eaters  
meat-eaters  
plant and meat-eaters
5. What would happen if our pyramid looked like this? \_\_\_\_\_  
\_\_\_\_\_



# A MOBILE FOOD CHAIN

**Directions:** Living organisms, such as plants and animals, depend upon each other. A Food Chain shows this interdependence of one organism to another. Study the various illustrations of the plants and animals below, then construct your own food chain mobile from paper, string, glue, and the illustrations. Where would you fit into your food chain?



# Key

## Food Chains and Webs

### **PREDATOR - PREY PAGE 69**

#### **Possible Answers:**

Coyote - Rabbits

Robin - Earthworms

Red-tail Hawk - Mice

White Bass - Gizzard shad

Mountain Lion - Deer

Walleye - Small fish

Praying Mantis - Terrestrial insects

Leopard Frog - Aquatic insects

Black-footed ferret - Prairie dogs

### **PYRAMID POWER - PAGE 71**

1. Food source for the animals.

2. Plant Eaters

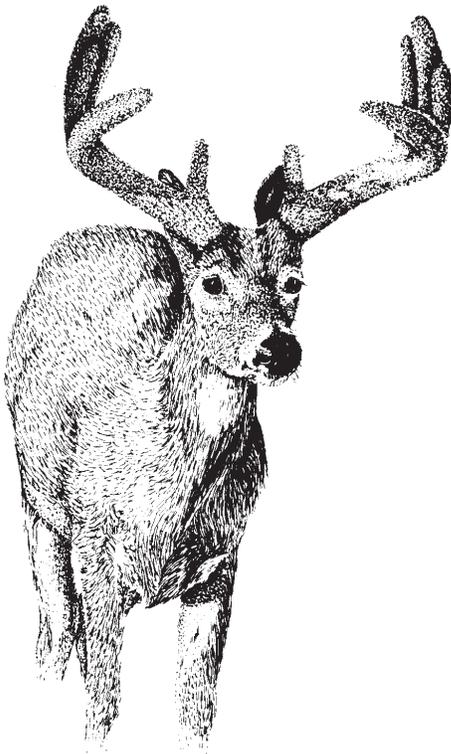
3. Plant and Meat Eaters (Omnivores)

4. Plant Eaters-Herbivores, Meat eaters-Carnivores, Plant and meat eaters-Omnivores

5. The Herbivores would soon consume all the plants, and the Carnivores would consume all the Herbivores; the food chain would break down, causing all the organisms to disappear.

*Give a person a fish,  
they can eat for a day.  
Teach them to fish,  
they can eat for a lifetime.*

*(Unknown)*



*Must we always teach our children  
with books? Let them look at the  
mountains and the stars up above,  
Let them look at the beauty of the  
waters and the trees and the flow-  
ers on earth. They will then begin to  
think, and to think, is the beginning  
of real education.*

*(David Polis)*

Equal opportunity to participate in and benefit from programs described herein is available to all individuals without regard to race, color, national origin, sex, religion, age or handicap. Complaints of discrimination should be sent to Office of the Secretary, Kansas Department of Wildlife and Parks, 1020 S Kansas Ave. Suite 200, Topeka, KS 66612-1327

