

## South Carolina Academic/Career Development Integration Activity

**Title**                      **Endangered Species (ES-1)**  
**Subject**                **Science**

**Grade Level 3**

**SC Content Standard** – Habitats and Adaptations – Grade 3. Standard 3-2. The student will demonstrate an understanding of the structures, characteristics, and adaptations of organisms that allow them to function and survive within their habitats. (Life Science)

3-2.4. Explain how the changes in the habitats of plants and animals affect their survival.

### **National Career Development Guidelines Goal/Indicator**

Career Management GOAL CM3. Use accurate, current, and unbiased career information during career planning and management.

Indicator CM3.K5. Identify occupations you might consider without regard to your gender, race, culture, or ability.

### **Career Development Objectives**

1. The students will explain some of the ways that changes in habitats affect animal survival.
2. The student will understand the meaning of the term *endangered animal*.
3. Students will expand awareness of occupations that are connected to the study and protection of endangered animals.

### **Assessment**

1. Students will give examples of some ways that changes in habitat have led to certain animals being endangered (participation in class discussions and observation).
2. Students will identify at least five occupations that are connected to the study and protection of endangered animals (participation in class discussions and observation).
3. Students will draw or make a collage of an endangered animal in its natural habitat.

### **Preparation**

- Prior Learning—Instruction on habitats and the survival of animals
- Handouts/Worksheets—N/A
- Resources/Materials—textbook, resource books, magazines, access to the Internet and the library, crayons, construction paper, paste, and scissors, Optional: guest speaker from a zoo, or aquarium, environmental protection agency, US Fish and Wildlife Service, or conservation group...Note: See attached resource sheet for Internet resources

\* Adapted from *Career Development Tool Kit Grades 6-8*, Linda Kobylarz & Associates, 2000. Used with permission.

### **Procedures** **Part One**

- Through this activity, students will explore some of the ways that changes in habitats affect animal survival, what animals are endangered, and occupations related to the environmental-conservation field.
- Review with students the connection between habitats and animal survival.
- Ask students to brainstorm some drastic changes to habitats (e.g., burning of rainforests, pollution of lakes and oceans, lengthy droughts in the plains or grasslands, and development of cities and towns in rural areas).
- What does the term *endangered animal* mean to students? Endangered animals are, in the foreseeable future, in danger of vanishing from Earth forever.
- Have students brainstorm a list of endangered animals. Use the attached Resources for information.
- Visit [www.nature.ca](http://www.nature.ca) and explore the site for pictures of endangered animals and information about them.
- Engage students in a discussion of how changes in the habitat (caused by nature or humans) have endangered specific animals.
- Have students draw a picture of or make a collage of an endangered animal in its natural habitat.

### **Part Two—Career Development Connections**

- Have students brainstorm the names of occupations that involve working with the environment, animals, conservation, wildlife protection; or in zoos and aquariums. Visit [www.ecojobs.com](http://www.ecojobs.com) to see some actual job openings.
- Ask students if they might be interested in this kind of work.
- Optional: Invite to class a guest speaker who works in this field.

### **Crosswalks**

#### **SC Career Guidance Standard/Competency**

Learning to Work Standard 1. Students will understand the relationships among personal qualities, education and training, and the world of work.  
Competency 1.3. Explore career interests and related occupations.

#### **Key Employability Skills**

Thinking Skills—Critical thinking

Information Management—Acquires, interprets, and communicates information

## ***RESOURCES***

## Internet Sites

Endangered Animal Channel <http://www.endangeredtv.com/> OR [endangeredtv.com/endangered/grevys\\_zebra//endangerearthnews.com](http://endangeredtv.com/endangered/grevys_zebra//endangerearthnews.com)  
(students explore videos of endangered animals from the Bagheera site. Grades 2-6)

[www.nature.ca](http://www.nature.ca) (pictures of endangered animals, click a continent and get a list of endangered animals, good links to related sites)

[www.ecojobs.com](http://www.ecojobs.com) (actual job listings for positions in natural resources and conservation, environmental science, and more)

## Endangered Animal Lists (from [www.nature.ca](http://www.nature.ca))

Visit the site, click on the name of an animal, and get more information.

### North America

- |                                                 |                                                          |                                                   |                                                     |
|-------------------------------------------------|----------------------------------------------------------|---------------------------------------------------|-----------------------------------------------------|
| • <a href="#"><u>Alligator Lizard</u></a>       | • <a href="#"><u>Cougar</u></a>                          | • <a href="#"><u>Jefferson's Ground Sloth</u></a> | • <a href="#"><u>Red Fox</u></a>                    |
| • <a href="#"><u>American Alligator</u></a>     | • <a href="#"><u>Coyote</u></a>                          | • <a href="#"><u>Kangaroo Rat</u></a>             | • <a href="#"><u>Red Squirrel</u></a>               |
| • <a href="#"><u>American Badger</u></a>        | • <a href="#"><u>Crow</u></a>                            | • <a href="#"><u>Kirtland's Warbler</u></a>       | • <a href="#"><u>Richardson Ground Squirrel</u></a> |
| • <a href="#"><u>American Lion</u></a>          | • <a href="#"><u>Dovekies</u></a>                        | • <a href="#"><u>Lamprey</u></a>                  | • <a href="#"><u>Ruby-Throated Hummingbird</u></a>  |
| • <a href="#"><u>American Marten</u></a>        | • <a href="#"><u>Eastern Chipmunk</u></a>                | • <a href="#"><u>Least Weasel</u></a>             | • <a href="#"><u>Saiga Antelope</u></a>             |
| • <a href="#"><u>American Mastodon</u></a>      | • <a href="#"><u>Eastern Cougar</u></a>                  | • <a href="#"><u>Leech</u></a>                    | • <a href="#"><u>Scimitar Cat</u></a>               |
| • <a href="#"><u>American Mink</u></a>          | • <a href="#"><u>Eastern Massasauga Rattlesnake</u></a>  | • <a href="#"><u>Leopard Frog</u></a>             | • <a href="#"><u>Sei Whale</u></a>                  |
| • <a href="#"><u>American Pika</u></a>          | • <a href="#"><u>Eastern Racer</u></a>                   | • <a href="#"><u>Lobe-Finned Fish</u></a>         | • <a href="#"><u>Short-Faced Bear</u></a>           |
| • <a href="#"><u>American Porcupine</u></a>     | • <a href="#"><u>Eastern Spiny Soft Shell Turtle</u></a> | • <a href="#"><u>Loggerhead Turtle</u></a>        | • <a href="#"><u>Shortnose Sturgeon</u></a>         |
| • <a href="#"><u>American Robin</u></a>         | • <a href="#"><u>Elk</u></a>                             | • <a href="#"><u>Lynx</u></a>                     | • <a href="#"><u>Snapping Turtle</u></a>            |
| • <a href="#"><u>Ancient Coral Reefs</u></a>    | • <a href="#"><u>Ermine</u></a>                          | • <a href="#"><u>Monarch Butterfly</u></a>        | • <a href="#"><u>Snow Bunting</u></a>               |
| • <a href="#"><u>Ants</u></a>                   | • <a href="#"><u>Eskimo Curlew</u></a>                   | • <a href="#"><u>Moose</u></a>                    | • <a href="#"><u>Snowy Owl</u></a>                  |
| • <a href="#"><u>Arctic Ground Squirrel</u></a> | • <a href="#"><u>Euoplocephalus</u></a>                  | • <a href="#"><u>Mountain Goat</u></a>            | • <a href="#"><u>Star-Nosed Mole</u></a>            |
| • <a href="#"><u>Arctic Hare</u></a>            | • <a href="#"><u>Fin Whale</u></a>                       | • <a href="#"><u>Muskox</u></a>                   | • <a href="#"><u>Stenonychosaurus</u></a>           |
| • <a href="#"><u>Arctic Lupines</u></a>         | • <a href="#"><u>Florida Manatee</u></a>                 | • <a href="#"><u>Muskrat</u></a>                  | • <a href="#"><u>Stegoceras</u></a>                 |
| • <a href="#"><u>Arctic Wolf</u></a>            | • <a href="#"><u>Flying Squirrel</u></a>                 | • <a href="#"><u>North American Mammoth</u></a>   | • <a href="#"><u>Striped Skunk</u></a>              |
| • <a href="#"><u>Atlantic Ridley</u></a>        | • <a href="#"><u>Gannet</u></a>                          | • <a href="#"><u>Northern Elephant Seal</u></a>   | • <a href="#"><u>Styracosaurus</u></a>              |
| • <a href="#"><u>Atlantic Salmon</u></a>        | • <a href="#"><u>Garter Snake</u></a>                    | • <a href="#"><u>Northern Pike</u></a>            | • <a href="#"><u>Teeth, Mammoth</u></a>             |
| • <a href="#"><u>Babine Lake Mammoth</u></a>    | • <a href="#"><u>Giant Beaver</u></a>                    | • <a href="#"><u>Northern Shrike</u></a>          | • <a href="#"><u>Trumpeter Swan</u></a>             |
| • <a href="#"><u>Bald Eagle</u></a>             | • <a href="#"><u>Golden Eagle</u></a>                    | • <a href="#"><u>Otter</u></a>                    | • <a href="#"><u>Tundra Muskox</u></a>              |
| • <a href="#"><u>Barn Swallow</u></a>           | • <a href="#"><u>Grasshopper</u></a>                     | • <a href="#"><u>Panoplosaurus</u></a>            | • <a href="#"><u>Tyrannosaurus</u></a>              |
|                                                 | • <a href="#"><u>Great Blue Heron</u></a>                |                                                   | • <a href="#"><u>Vancouver Is.</u></a>              |
|                                                 | • <a href="#"><u>Greater Prairie</u></a>                 |                                                   |                                                     |

- Beaver
- Brown Trout
- Bullfrog
- Burrowing Owl
- California Condors
- Canada Goose
- Caribou Fleshing Tool
- Carolina Parakeet
- Carp
- Chorus Frog
- Coal-Age Reptiles
- Common Night Hawk
- Common Puffin

- Chicken
- Grey Whale
- Grizzly
- Hairy-Tailed Mole
- Harp Seal
- Helmeted Muskox
- Hoary Marmot
- Hooded Seal
- House Fly
- House Mouse
- Humpback Whale

- Passenger Pigeon
- Peary Caribou
- Peregrine Falcon
- Piping Plover
- Polar Bear
- Primaeval Algal Reefs
- Pronghorned Antelope
- Raccoon
- Ringed Seals
- Raven
- Razorbill

- Marmot
- Walrus
- Western Camel
- White Lake Whale
- White Pelican
- Whooping Crane
- Wolf
- Wolverine
- Yellow-Bellied Sapsucker
- Yellow Spotted Salamander
- Yukon Wild Ass

## Africa

- African Elephant
- African Lion
- African Wild Dog
- Baboon
- Black Lemur
- Cape Buffalo
- Cheetah
- Chimpanzee
- Coelacanth
- Crocodile
- Dodo
- Dromiceiomimus

- Elands
- Giraffe
- Gorilla
- Gnu
- Heterodontosaurus
- Hippopotamus
- Hyena
- Kentrosaurus
- Kudu
- Leatherback Turtle
- Leopard

- Mediterranean Monk Seal
- Mongoose
- Mountain Gorilla
- Oryx
- Ostrich
- Ouranosaurus
- Therizinosaurus
- Vulture
- Wart Hog
- Wild Ass
- Zebra

## Endangered/Extinct

- African Elephant
- African Wild Dog
- American Alligator
- Asian Elephant
- Asian Lion
- Atlantic Ridley
- Atlantic Salmon
- Bald Eagle
- Black Lemur
- Black-footed Ferret
- Blue Whale
- Bowhead Whale
- Carolina Parakeet
- Cheetah
- Chimpanzee
- Coelacanth
- Dodo

- Eastern Cougar
- Eskimo Curlew
- Fin Whale
- Florida Manatee
- Galapagos Flightless Cormorant
- Gaur
- Gavial
- Giant Anteater
- Giant Armadillo
- Giant Panda
- Gorilla
- Great Auk
- Greater Prairie Chicken
- Green Turtle
- Grey Whale
- Grizzly

- Humpback Whale
- Imperial Parrot
- Indian Rhinoceros
- Jaguar
- Japanese Crested Ibis
- Kagu
- Kakapo
- Komodo Dragon
- Leatherback Turtle
- Leopard
- Loggerhead Turtle
- Mediterranean Monk Seal
- Monkey-eating Eagle
- Mountain Gorilla
- Orangutan
- Passenger Pigeon
- Peregrine Falcon

- Piping Plover
- Pronghorn Antelope
- Przewalski's Horse
- Pygmy Hippopotamus
- Sea Otter
- Sei Whale
- Shortnose Sturgeon
- Snow Leopard
- Takahé
- Tapir
- Tiger
- Trumpeter Swan
- Vancouver Island Marmot
- White Pelican
- White Rhinoceros
- Whooping Crane
- Wild Ass
- Wild Yak