

The Columbus Zoo and Aquarium endeavors to foster a lifelong connection with nature in children and adults by creating a meaningful link between people and wildlife. These activities are designed to be done either at home or at school. Before diving into the materials, here are some tips to help you plan:

These activities are structured around the 5E Lesson Plan model, commonly used in science education:

ENGAGE - Sparking interest in a topic

 EXPLORE - Student-led investigation of concepts

 EXPLAIN - Clarification of concepts

 EXTEND - Student-led application of concepts

 EVALUATE - Opportunity to demonstrate understanding of concepts

This activity packet will guide students as they explore wildlife and wild places. We encourage parents and teachers to utilize all five activities chronologically to provide students a complete learning experience. These activities can be done in a day, or over a longer time span. It is ideal because the educator can tailor the timing around the needs of the learners.

Each section has a brief activity description and a list of materials needed. The instructions are written for the learner; however, we encourage adults to work closely with their students. (Be sure to supervise students when doing any outdoor activities.) Most importantly, we hope you have a fun and engaging experience!



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GRADES AINS AND FOOD WEBS H

5 STEPS T MEANING **ZOO PRO**

ENG

Introductio food chains food webs.

EXPLO Explore you or home ya

examples o chains.

EXPLA

Do any foo overlap?

EXTEN

Read to fin about food nature.

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Apply conce and create own food w

TO A GFUL DGRAM	DESCRIPTION OF ACTIVITY	ESTIMATED TIME	MATERIALS NEEDED
GE on to ns and s.	Read Butternut Hollow Pond by Brian Heinz. Use the "Food Chain Vocabulary Cards" to discuss. Cut out the cards. Then find a partner and see how many you can match together. There can be multiple pairings for the same words!	30 minutes	Copy of Butternut Hollow Pond by Brian Heinz Copies of "Food Chain Vocabulary Cards"
) R E our school ard for of food	Go outside and look for examples of food chains. Do any of them overlap? Write your responses on a chart. Notice where they overlap.	30 minutes	Chart paper, markers
od chains	Watch HOA Savanna is back. Make a list of the species described in the video. Can you organize them by what they eat? Are they a producer, consumer, or decomposer? What other animals might be found in their native habitats in Africa? Create a food web illustrating how energy flows through this ecosystem.	30 minutes	Drawing paper Crayons/colored pencils
ND nd out d webs in	Read "Who Eats What" by Patricia Lauber. Discuss difference between a food web and food chain.	30 minutes	Copy of "Who Eats What? By Patricia Lauber
UATE cepts 9 your web.	With a partner or on your own, choose an ecosystem and create your own food web using animals from that area.	30 minutes	Vocabulary cards



FOOD WEB VOC	ABULARY CARDS
CARNIVORE	Herbivore
omnivore	PREDATOR
PREY	FOOD CHAIN
FOOD WEB	PRODUCER
consumer	organism
Decomposer	SCAVENGER

COLUMBUS ZOO AND AQUARIUM

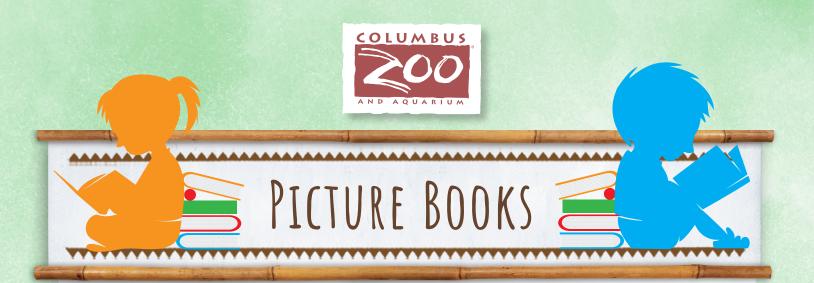


FOOD WEB VOCABULARY CARDS

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an animal that eats other animals (examples: lion, hawk, snake, wolf)	an animal that eats plants (examples: elephant, zebra, koala)			
an animal that eats plants and other animals (examples: turtle, brown bear, raccoon, human)	an animal that hunts and eats other animals			
an animal that is hunted and eaten by other animals	a system that shows the flow of energy in an ecosystem, where small animals are food for larger animals (example: sun > grass > mouse > owl)			
many food chains that interact with each other	an organism that makes its own food; primary source of energy in a food chain (examples: oak tree, grass, tulip, bean plant)			
an organism that needs to eat other organisms for food	a living thing			
a living thing that breaks down dead plants and animals; they turn dead material into fertile soil (examples: fungi, bacteria, worms)	an animal that searches for and eats dead animals (examples: turkey vulture, cockroach)			

FOOD WEB VOCABULARY CARDS ANSWERS

VOCABULARY WORD	ANSWER
Carnivore	an animal that eats other animals (examples: lion, hawk, snake, wolf)
Herbivore	an animal that eats plants examples: elephant, zebra, koala)
Omnivore	an animal that eats plants and other animals (examples: turtle, brown bear, raccoon, human)
Predator	an animal that hunts and eats other animals
Prey	an animal that is hunted and eaten by other animals
Food chain	a system that shows the flow of energy in an ecosystem, where small animals are food for larger animals (example: sun > grass > mouse > owl)
Food web	many food chains that interact with each other
Producer	an organism that makes its own food; primary source of energy in a food chain (examples: oak tree, grass, tulip, bean plant)
Consumer	an organism that needs to eat other organisms for food
Organism	a living thing
Decomposer	a living thing that breaks down dead plants and animals; they turn dead material into fertile soil (examples: fungi, bacteria, worms)
Scavenger	an animal that searches for and eats dead animals (examples: turkey vulture, cockroach)



***WHILE GRADE LEVELS ARE LISTED, ALL BOOKS ARE APPROPRIATE FOR ALL AGES.**

PICTURE BOOK	AUTHOR	GRADES
Pond Circle	Betsy Franco	K-3
Who Eats What	Patricia Lauber	K-3
Butternut Hollow Pond	Brian Heinz	2-5
Trout Are Made of Trees	April Pulley Sayre	K-3
The Magic School Bus Gets Eaten	Patricia Relf	K-3
What's for Dinner?: Quirky, Squirmy, Poems from the Animal World	Katherine B. Hauth	3-5
The Wolves Are Back	Jean Craighead	3-5
Horseshoe Crabs and Shorebirds: The Story of a Food Web	Victoria Crenson	3-5
Sparrow Girl	Sara Pennypacker	K-2
Hey Diddle Diddle	Pam Kapchinske	K-2
Vulture View	April Pulley Sayre	K-2
Dory Story	Jerry Pallotta	K-2
Pass the Energy, Please	Barbara Shaw McKinney	3-5
What do Carnivores Eat?	James Benefield	
What do Herbivores Eat?	James Benefield	