Title: Ohio Food Chain	Subjec	t:	Science			
	Standard: Life Science					
	Grade:	2	Date:	May 2005		
Vision		Lesson Summar	гу			
We want our students to be problem solvers, inquisitive, cooperative in group decisions, and actively involved and engaged.		Students will brainstorm and categorize animals that live in Ohio, and use pictures of animals to develop food chains. They discuss basic needs and are introduced to food webs.				
Goal(s) of This Lesson		Prior Knowledg	e/Pre-Assessme	ent		
 We want our students to: 1. Become familiar with Ohio animals, ecosystems, and habitats. 2. Be able to explain basic needs of plants and animals. 3. Develop and explain basic food chain. 4. Identify a food web 		Students were familiar with some Ohio animals and knew about the basic needs of plants and animals for survival.				
Team Members		Reflections/Ins	ights			
Georgia Arcuri, Parknoll Moira Lusky, Big Creek Carolyn Miller, Smith Michelle Zajac, Big Creek		activities and m The overhead of	ovement, as wel f the food web w	on due to the variety of Il as the subject matter. as ideal for ence of plants and		

Title: Ohio Food Chain		Subject: _		Science	
		Standard:	Life Science		
Relationship to	o the Curriculum	Grade:	2	Date:	May 2005
	cademic Conte	nt Standards			
Subject	Benchmark			Indicators	
Science	Life Sciences				
		in that food is a ant because it is		of plants and animals and energy.	
	C. Describe similarities and differences that exist among individuals of the same kind of plants and animals.	plants ar			ferent kinds of Ohio ways animals depend on
Math					
Technology	Technology and Information Literacy B. Use a simple research proce model which includes deciding v to use, finding resources, using information and checking work generate a product.	ess 1. Discu what the infor 3. Selec to electroni 4. Recor	mation might be t needed inform c encyclopedias, d and organize	found. ation from te and other e information t	the teacher and where eacher selected websites, electronic collections. to generate a product.
English Language Arts	Acquisition of Vocabulary Reading Process Reading Applications	5. Creat and web 1. Use t	s to demonstrate he table of conte	ic organizers e comprehen ents, glossar	

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Materials and Resources		Uni	it Suggestions		
 Teacher materials: "Background Information" on the sun and its er (page 8) Sentence strips of vocabulary words (see lessor Overhead of Food Web (page 10) 4 Cards, each one with a picture: bobcat, rabbit sun (page 9) Schonberg, Marcia. <u>Ohio Plants and Animals</u>, H Library, 2003, page 14 [included in the pri your school binder] Lauber, Patricia. <u>Who Eats What?</u> HarperCollin Publishers, 1995. One per student: picture of Ohio animals [in food chain worksheet (page) 	t, plant, einemann nt copy in s binder]	2. 3. No	Lesson to intro This lesson on tes: Prepare the 4	oduce students 'Ohio Food Ch cards in advan s of vis-a-vis p t materials	ce bens are needed for the

Title: Ohio	Food Chain		Subject:		Scienc	e	
			Standard:	Life Science			
Lesson Plan			Grade:	2	Date:	May 20	005
Suggested Time Frame and Steps	Teacher Direction, Support and Key Questions		Student Learnir	ng Activities	Qu	ipated Student Jestions and Responses	Evaluation/ Assessment
45-60 minutes	 Teacher asks the following: <i>How are plants, animals, and humans connected?</i> Children brainstorm Ohio animals and animals not found in Ohio. 	list a 2. s teac	Students orally b answers on pape Students name a cher places them er Ohio or Not C	er/board. animals and n in a T-Chart		od, shelter, air, clothing, sun	 Observation of student responses and participation Correct sorting of animals.
	 3. How do plants and animals depend on one another for survival? Guided questions: -Have you ever seen animals in your yard eating? -Have you ever been fishing? -Why don't plants overgrow? 		Students will ora explain relation	-	plants We eat	mals eat both and insects. t meat and alad.	3. Observation of student progress.
	4. Read aloud parts of the book <u>Who Eats What?</u> and discuss as you read. (only pages 4-10, 12-13)		Students answer stions.	⁻ guided	fc al w ha	otice that the ood chain lways starts rith the sun and as both plants nd animals.	4. Students' participation in guided questions.

Title: Ohio	o Food Chain		Subject:		Science	
			Standard:	Life Science		
Lesson Pla	an	_	Grade:	2	Date: May 2	2005
Suggested Time Frame and Steps	Teacher Direction, Support and Key Questions		Student Learnin	g Activities	Anticipated Student Questions and Responses	Evaluation/As sessment
	 5. Hand out 4 cards: sun, bobcat, rabbit, grass Ask 4 students to determine how they would depend on each other. 6. Discuss how they just created a food chain. Ask, Why did we include the sun? Why is the sun at the beginning? Teacher reads the "Background Information" sheet with discussion of the vocabulary energy food chain producers consumers food web ecosystem photosynthesis chlorophyll 		Students arrange a basic food cha		 5. I knew where to stand because I would eat 6. Plants need the sun to live. 	5. Correct arrangement of food chain.

Title: Ohio Food Chain	Subject:		Science	
	Standard:	Life Science		
	Grade:	2	Date: May 2	005
handout with Ohio animals, grass and sun as well as a blank food chain. Explain that the animals are not true to size and give some examples. (ex. the mouse compared to the wood duck	7. Students work create an Ohio foc writing the names from their animal food chain worksh If some finish befo students can draw pictures of the cho	od chain by of the items handout onto the eet. ore others, their own	7. How do I know what an animal eats?	7. Student completion of individual Ohio food chain.
Life to create a food web as	9. Students will b connect various liv overhead.		9. I know that frogs eat grasshoppers so I will connect them.	9. Students complete the web as a class.

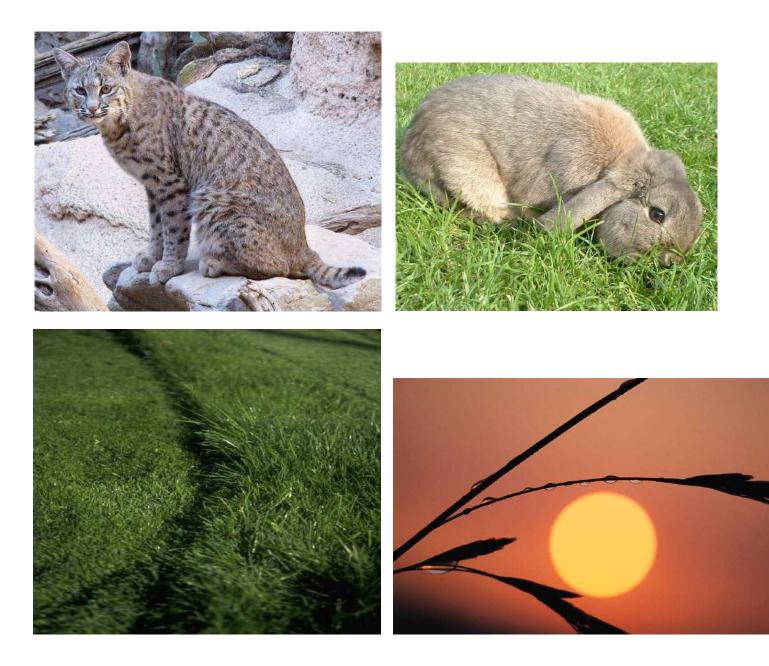
Title: Ohio Food Chain	Subject: Science
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	Grade: 2 Date: May 2005
Differentiated Instructional Support Children were able to participate in all the activit without modifications because of the pictures provided, oral responses, and partner work.	 Extensions Children can create their own food chain from any Ohio habitat Teacher reads the rest of the book, <u>Who Eats What?</u> At home, students talk about where all of their dinner came from with their families. WebQuest: http://wneo.org/WebQuests/TeacherWebQuests/ohioanimal s/default.html
Technology Connections	Literature Links
 Website: <u>http://www.dnr.ohio.gov/wildlife/Kids</u> Divi 	Stall, Chris. <u>Animal Tracks of the Great Lakes States</u> vision
of Wildlife, Ohio Department of Natural Resources Wildkids • <u>http://www.ohiohistorycentral.org/ohc/natanimals/index.shtml</u> • <u>http://resource-center.cmnh.org/teaching_kits.htm</u> (teaching kit on Ohio Animals K-2)	ature/ Platt, Carolyn V. <u>Creature of Change: An Album of Ohio</u> <u>Animals</u>

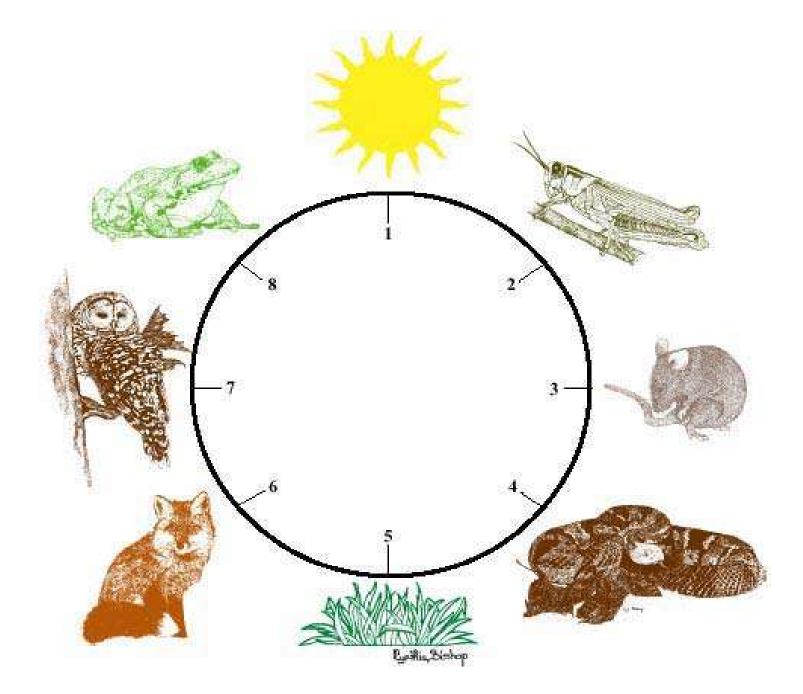
Note: Please see printed copies in your school's library for handouts and samples of student work.

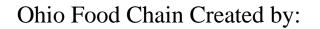
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BACKGROUND INFORMATION: (Vocabulary words are underlined)

All energy originates with the sun. Plants harness the sun's energy and allow it to move up through the food chain. A food chain is a simplified view of what animals in a community eat. In every food chain there are large numbers of green plants (**producers**) at the bottom, a smaller number of first level **consumers** (plant-eaters) in the middle, and a few second level consumers (flesh-eaters) at the top. All food chains are interrelated and are collectively known as a **food web**. Food webs are part of ecosystems. An <u>ecosystem</u> is a group of living things and their non-living surroundings (example: meadow, forest or pond ecosystem). All living and non-living parts of ecosystems interact and affect one Green plants carry on the process of photosynthesis, which means "putting together with another. light." Green plants harness the sun's energy to combine water and carbon dioxide, producing sugar (food) and oxygen. The sunlight needed for this process is absorbed by the green pigment in leaves (chlorophyll). Without plants, (i.e., without food, shelter, oxygen), animal life could not exist.







Ohio Food Chain Created by:

