

TEACHER GUIDE

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STUDENT HANDOUTS

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MINI POSTERS 55

✓ 6 BONUS Activity Pages! Additional worksheets for your students

- Go to our website: www.classroomcompletepress.com/bonus
- Enter item CC4500 or Ecosystems
- Enter pass code CC4500D for Activity Pages.







Ecosystems CC4500



Food Chains & Food Webs What Is a Food Chain? e just learned that all organisms W depend on each other for food and energy. We also learned that all food is produced using the Sun's energy. Some organisms use the Sun's energy directly for food (for example, plants). Others eat other organisms The Sun Grass because they cannot make their own food. And others break down nutrients in dead organisms to make food for others. We call these producers, consumers, and decomposers. If you look at the drawing to the right, you will lumans see many arrows. These arrows show how each organism is dependent on another organism. It looks like a long chain. We call this the food chain. Each part is linked or dependent on anothe Cows (Beef) part. Draw a diagram like a food web using different people in your family. How are you dependent on each other? Do humans only ear one type of food? Of course not. There are no organisms that eat only one type of food. Every organism depends on more than one other organism for food. That is why the **food chain** looks very busy. In a food chain diagram, every organism would have more than one arrow coming towards it or going away from it. The arrows overlap each other. Have you ever looked closely at a spider's web? The many arrows in a food chain look very similar to a spider's web. That is why we call the busy interactions between organisms a **food web**. © CLASSROOM COMPLETE 26 Ecosystems CC4500 NAME: _ After You Read 🌪 Food Chains & Food Webs

NAME: _

🖤 Reading Passage

3. A food chain diagram shows how organisms depend on each other for food. Look at the food chain diagram below. Explain in your own words how these organisms depend on each other.





a) All organisms use the Sun's energy directly for food.

make their own food.

b) Some organisms eat other organisms because they can not

F

F

Extension & Application 4. SPIN YOUR OWN FOOD WEB! Food webs look like spider webs. They show how EACH organism depends on MANY organisms for food. Many arrows criss-cross over each other. This shows how complicated their interactions are. On the worksheet provided, create your own **food web**. The first box is filled in for you (the Sun). Fill in the rest of the boxes using organisms from the list below. **CHOOSE** EIGHT from the list of twenty organisms. Use research tools to find out what each organism eats, Remember, each organism is dependent on more than one other organism. Use arrows to show how these organisms are dependent on each other. Humans • A Deer Seaweed Worm

Lettuce

Wheat

• Beetle

Mouse

28

• Dog

Humans

 Corn • Ant

• Fish

Carrot

Potato

• Shark

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Rabbit

Grass

• Cow

• Rice

Chicken

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- F 2.) As long as organisms look similar, they are part of the same Τ population.
- 3.) Succession describes what happens when something changes Т over a long period of time. 4.) Producers, consumers, and decomposers depend on each other Т F

Ecosystems CC4500

- for energy and tood.
- ΤF 5.) Food chain shows how organisms rely on themselves to find food and energy.
- 6.) Photosynthesis is the process where plants use sunlight, water, and carbon dioxide to make food, oxygen, and water. ΤF
- 7.) The water cycle shows how water goes up through the roots of a tree, and falls back to the ground through evaporation. ΤF
- 8.) Microorganisms include big organisms like bacteria. They are so big that you need a telescope to see them. ΤF

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Part B

Label the diagram by doing the following:

- Write the stages below on the diagram 1. to show each stage in the water cycle.
 - evaporation
 - condensation
 - precipitation
 - collection

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- 2. Use a colored pencil to show the path of the water running through the water cycle.
- 3. What **shape** does your path make?



SUBTOTAL: /14

6

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After You Read 🌪

NAME:

Ecosystems

3. In what ways could your classroom be described as an ecosystem? Name two **abiotic** and two **biotic** things in your classroom.

4. Are all **ecosystems** the same size? Use examples to explain your answer.

Extension & Application

5. Imagine you are a frog living somewhere in the world. Use both your imagination and research tools to come up with facts about the ecosystem in which you live.

Copy the chart below onto a separate piece of paper to help you organize your thoughts and facts.

se	Imagination	Research Tools	
Where they live (i.e., water, soil)			
What they need to survive			
Biotic things found in their ecosystem			
Other abiotic things found in their ecosystem			

6. TRAVEL TO AN ECOSYSTEM! Design a travel poster which will convince people to come visit this ecosystem. Choose any ecosystem (try to think of one not yet mentioned) and use pictures and words to describe what you would find in this ecosystem. Remember... an ecosystem doesn't have to be a big place, and it has both biotic and abiotic things in it!

In your poster, be sure to include:

- The name of your ecosystem (a title)
- A slogan or sentence convincing people to come visit
- Drawings of both living and non-living things
- Research facts about the different parts of the ecosystem

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Organisms reproduce with each other



Yes; If organisms don't reproduce, a population will not survive



6. Answers will vary

