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Let's Learn Backpack— Grade 3

This sample includes the following:

Let's Learn Activity Book

- Table of Contents (1 page)
- About This Book (1 page)
- Guiding Questions (1 page)
- Reading (1 page)
- Speaking & Listening (1 page)
- Mathematics (1 page)
- Social Studies (1 page)
- Science (1 page)
- Mindfulness (1 page)
- Hands-on Activities (1 page)

Reader Sample (31 pages)

Additional backpack resources not included in this sample:

- Parent Tip Card
- · Ebook Library Access Card



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About This Book

Welcome to *Let's Learn!* You can use this book at school or home. The activities are based on educational standards. You will practice lots of important skills and concepts.



Guiding Questions

Unit 1:
Biomes and Habitats
What can we learn from
biomes and habitats?

Unit 2: Seasons
What makes the seasons unique?

Unit 3: Holidays
Why do we have holidays?

Unit 4: Natural Disasters
Why should we learn about natural disasters?

Unit 5: Animals What do animals teach us?

Unit 6: Transportation

How does transportation

help us?

Preguntas orientadoras

Unidad 1:
Biomas y hábitats
¿Qué podemos aprender
de los biomas y los
hábitats?

Unidad 2: Estaciones ¿Qué hace que cada estación sea única?

Unidad 3: Festividades ¿Por qué tenemos festividades? Unidad 4: Desastres naturales ¿Por qué deberíamos aprender sobre los desastres naturales?

> Unidad 5: Animales ¿Qué nos enseñan los animales?

Unidad 6: Transportes ¿De qué manera nos ayuda el transporte? Directions: Read the text, and answer the questions.

Ready to Fly

Sean was going on a plane to visit his uncle. It was the first time he had ever been on a plane alone. Sean was old enough to fly by himself. He knew which people to ask for help if he needed it. He had already met the flight attendants. His mom had packed a bag with games and snacks for the short flight. Sean smiled with satisfaction as he sat on the plane by himself. He was ready to go!

- What is the text about?
 - (A) a plane carrying only one passenger
 - (B) a child traveling alone on a plane to visit family
 - © feeling lonely on an airplane trip
 - (D) a passenger wanting to be left alone on a plane
- **2** What is the setting?
 - (A) Sean's house
 - (B) a park
 - a grocery store
 - an airport
- 3 Which word has the same blend as plane?
 - (A) upload
- © plate
- (B) apple
- (D) uncle

- 4 What is the definition of attendants?
 - (A) servants
 - (B) workers who serve or help
 - © people who sell tickets
 - people who fly planes
- **5** Which is a synonym for satisfaction?
 - (A) happiness
 - (B) sadness
 - © loneliness
 - (D) grumpiness
- **6** Which new title best fits the text?
 - (A) "All About Airplanes"
 - (B) "Sean Learns to Fly"
 - © "Sean's First Solo Flight"
 - © "Sean Is Bored"

Directions: Find a friend or family member to help you read aloud the text on page 45. Read it aloud in at least three different ways.

Ask the person to read the text aloud, but join them in reading the last word of each sentence.



Read aloud every other sentence.
Then, switch and read the other sentences.



Read aloud together.
Pause after each
sentence, and talk about
how you could read with
more expression or at
a better pace. Repeat
the sentence with your
improvements.

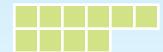


Read a few sentences with terrible phrasing and weird pauses. Then, reread with meaningful phrasing. Pause at the right places based on the punctuation.

Directions: After you practice, record yourself reading aloud. Listen to the recording to see if you read it smoothly and with expression. Practice some more. Then, set a time to share your nonfiction readaloud with your family or friends!

Directions: Solve each problem.

1 Record the area.



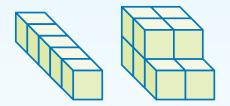
_____ square units

5 Circle the solid that has a greater volume.

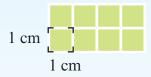




2 Circle the solid that has a greater volume.



6 Record the area.



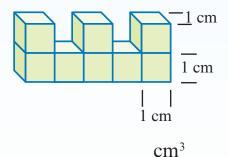
____ cm^2

3 Record the area.



_____ square units

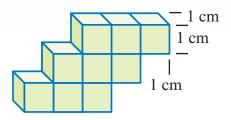
7 How many cubic centimeters are in the solid?



4 Circle the solid that has less volume.



8 What is the volume of the solid?



____ cm³

Directions: Study the terms in the Word Bank. Look up any terms you don't know. Then, write the terms in the correct columns to show if the person or group makes or enforces rules. Some terms may appear in both columns.

Word Bank

- city council
- president
- parent
- principal

- teacher
- Congress
- police officer
- security guard

Makes Rules	Enforces Rules

Science

Directions: Follow the steps in this experiment to see which items are conductors. Have an adult help you.

What You Need

- hammer
- two steel nails
- block of wood or Styrofoam

- C battery
- light bulb
- metal paper clip

- electrical wire
- small objects

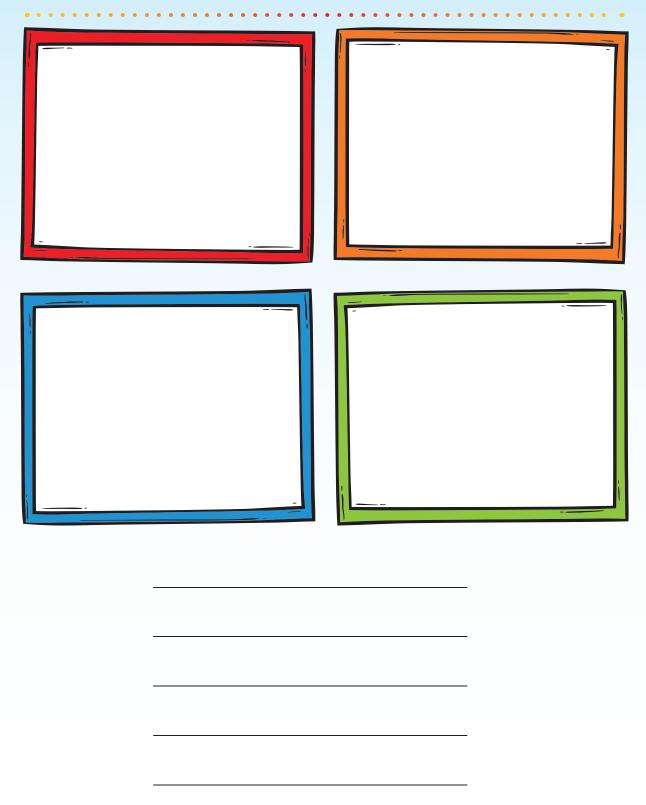
What to Do

- 1 Hammer the two nails into the block, 2 cm apart.
- 2 Use electrical wire to attach the battery to one nail. Attach the light bulb to the other nail. Then, use a third piece of wire to connect the light bulb to the other end of the battery.
- 3 Place a paper clip across the nails on the block. The light should turn on. The paper clip is a conductor.
- 4 Now, test to see if any of the small objects are also conductors. Place each one across the nails on the block. Record your results.

Item	Conductor?
metal paper clip	

NI	D - + -	
Name	LIATE	
INGILIC	 Duce	·

Directions: Draw four pictures that show you doing things that make you happy. Choose your favorite picture. Write a poem about how you feel when you do that activity.



Directions: Focus on your well-being with these hands-on activities. Choose at least two to complete.

Staying Healthy

Imagine you are traveling to a biome such as the rainforest, desert, or tundra. Make a packing list of clothes and accessories you would need. Explain to a friend why those items will keep you safe on your trip.

Amazing Art

Create a diorama of a biome in a shoebox. Use art supplies or recyclable materials to add landscapes, details, and even animals to your biome.

Making Music

Brazil, Congo, and Thailand are on different continents, but they have one thing in common. Each has a rainforest biome. Listen to music from each country. Talk about the songs with a classmate.

Getting Active

A snowy tundra is a great place to play winter games! Choose an activity like sledding, skiing, or even a snowball fight. Think of a way to modify the game so you can play it without snow. Try it with friends!

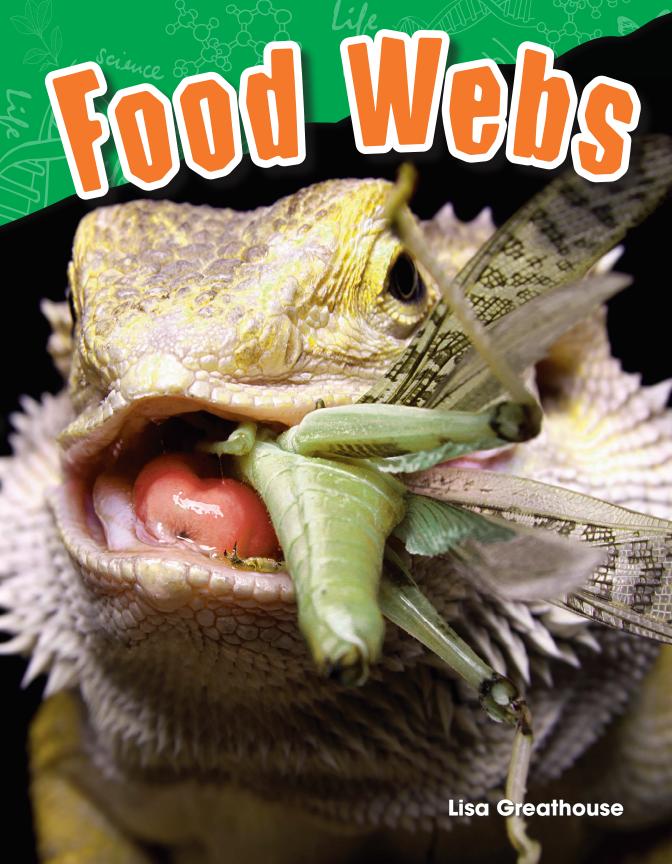


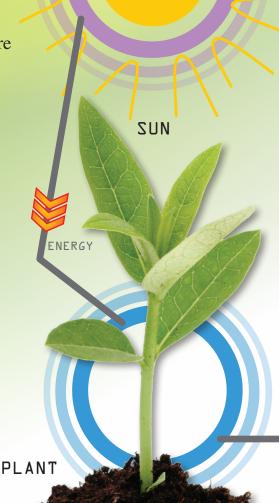
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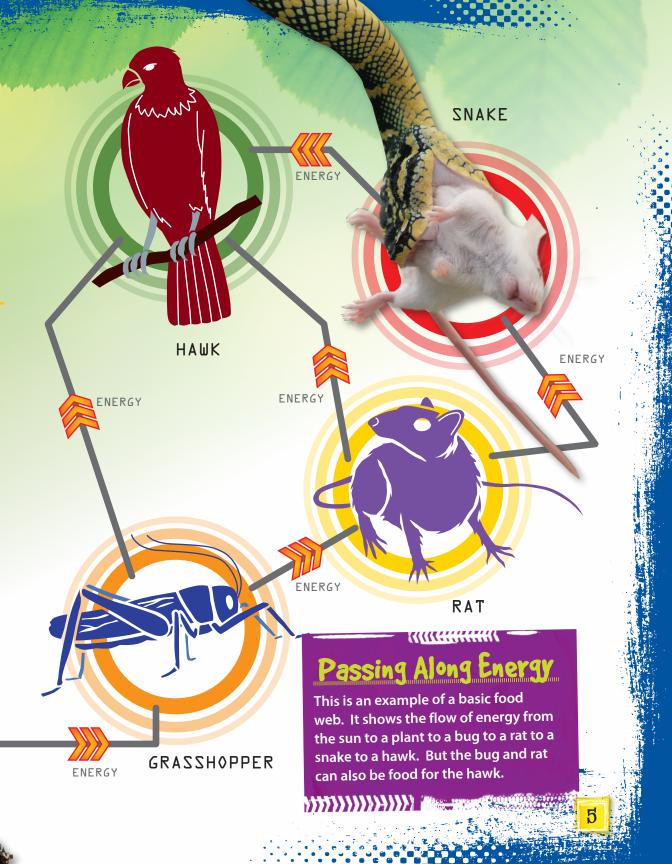
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Your Turn!

If Its Afve, It Needs Energy

Is it lunchtime yet? By the time the lunch bell rings, you are probably hungry. That's because your body needs **energy** to get through the day. The energy you get from the food you eat helps you run at recess. It helps you focus while you're doing homework. It helps you fight off the flu and other illnesses. The energy from the food you eat even keeps your heart beating and your blood pumping.

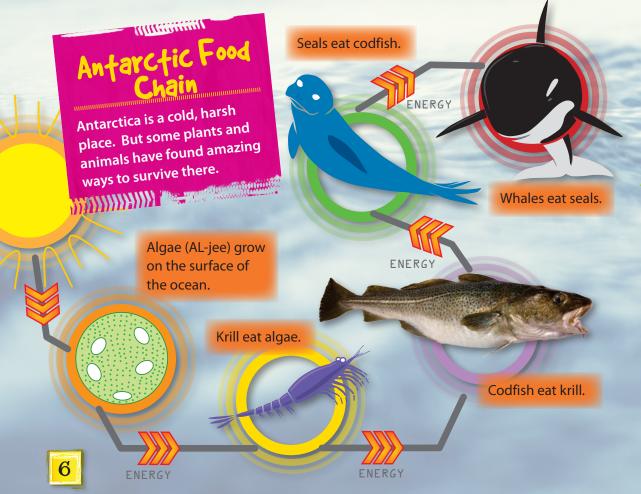
In other words, you couldn't live without energy from food. The same is true for all living things on Earth. All living plants and animals need energy to live. Plants get their energy from air, soil, water, and the sun. Animals get their energy by eating plants and other animals. That flow of energy from one living thing to another is called a *food chain*. A food chain branches out to many animals. As it grows, it starts to look like a web—a food web!

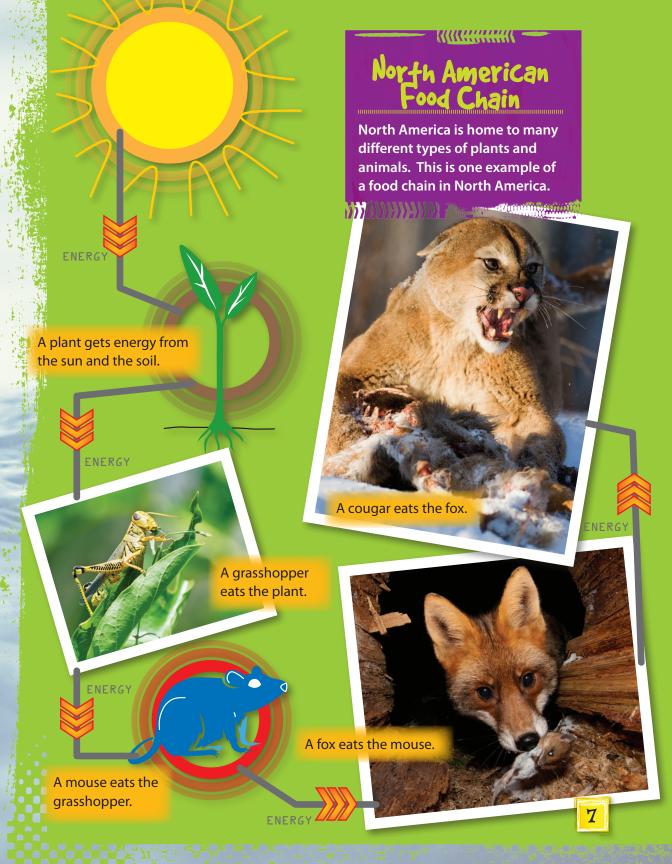




Food webs show how animals get energy from other **organisms**. They show who eats who. They are a simple way to understand a complex process. It may be difficult to see how a plant in one place gives energy to an animal far away. But a food web can show how they connect.

There are many types of food webs. They vary based on the part of the world you are in. You wouldn't see an African lion or a polar bear in an American food web—except at the zoo! A food web from Greece might have olives, goats, and bears in it. A food web from China might have grass, birds, and alligators. Wherever they are from, food webs show how **species** relate.





Plants Are Producers

All food webs start with the sun. The sun provides plants with the energy they need to grow. And plants provide energy to billions of animals around the world.

Plants use air, sunlight, water, and soil to make their own food. That's why plants are known as **producers** in a food web. There are a lot of links in a food web. But plants are some of the only creatures that directly use the sun's energy to make food.

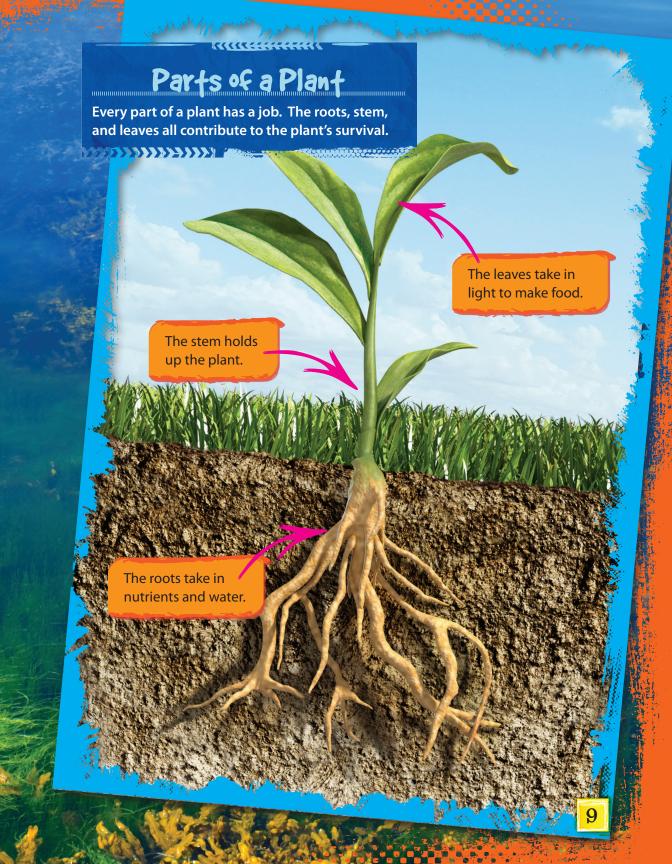
Producers of the Ocean

Plants aren't the only producers. Some tiny creatures that live in the ocean, such as algae, also make their own food from the sun's energy.

There are over 20,000

477779999

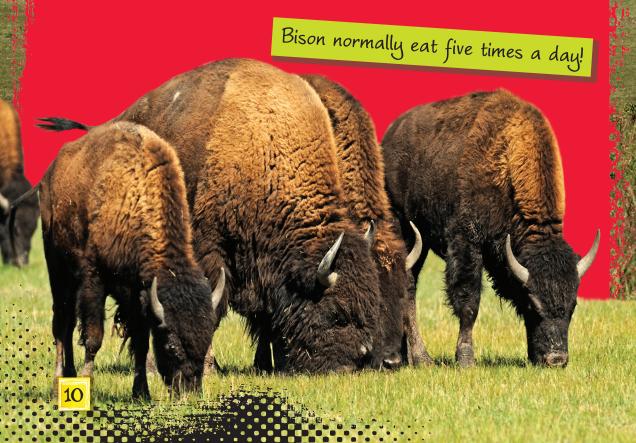
known types of algae.

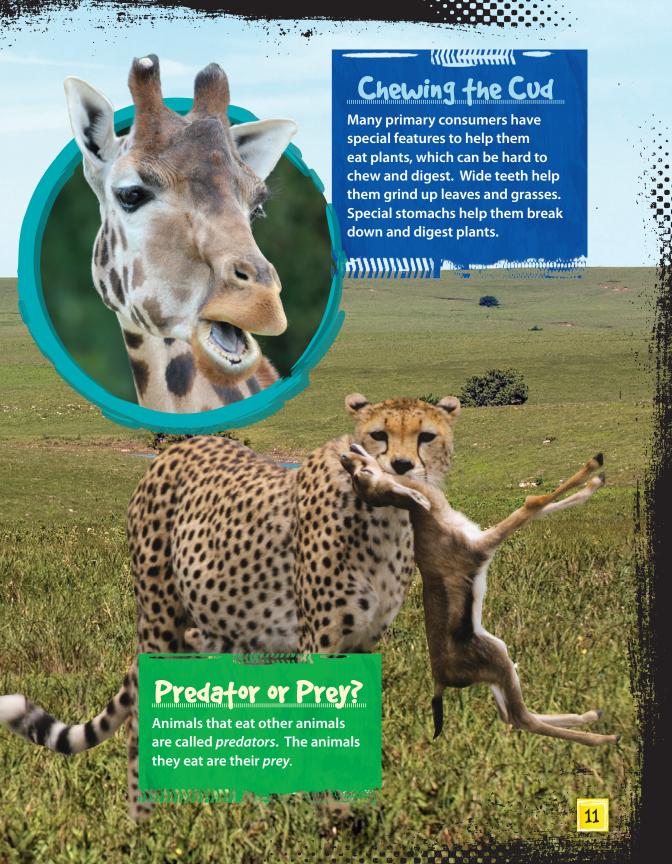




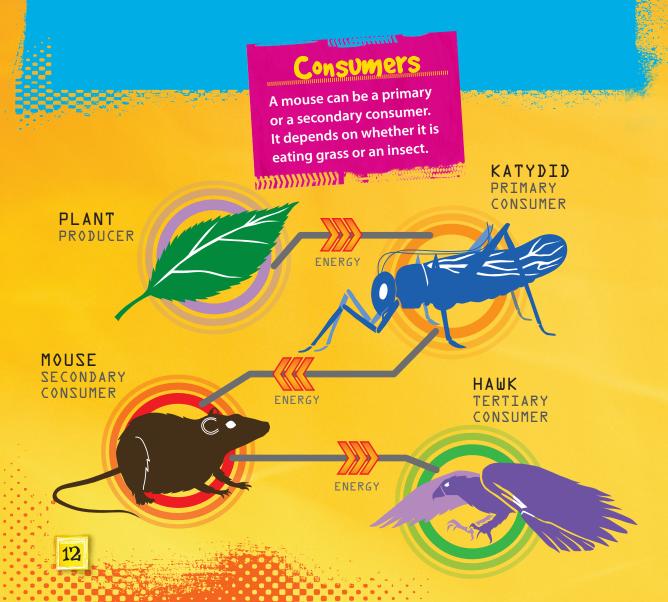
Animals that eat plants are the next link in a food web. They use energy from plants to grow and live. Animals that eat only plants are called **herbivores**. In a food web, they are called **primary consumers**.

Primary consumers can be small animals. Insects or rabbits are primary consumers. But there are also large herbivores. These include giraffes, elephants, and bison (BAHY-suhn).





Most primary consumers are small animals that are eaten by larger animals. When a cricket eats a leaf, it is a primary consumer. Then, along comes something bigger, such as a mouse, which eats the cricket. That mouse is a **secondary consumer**. The energy the cricket gets from the plant moves to the mouse. A tertiary consumer, perhaps a bird, may then eat the secondary consumer. The energy goes from the sun to plants. Then, it moves from one animal to the next.



Hungry?

Life in a food web is classified by how things get energy. What kind of consumer are you? Find out!

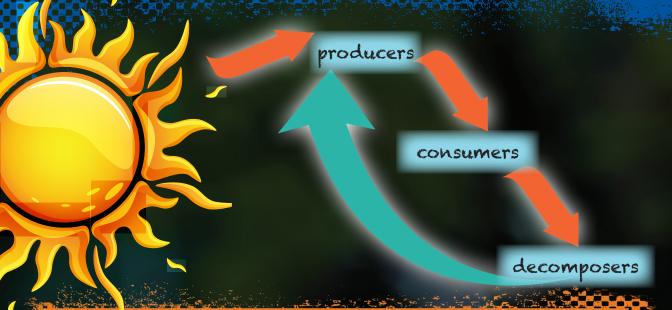
Do you eat meat?

You're a herbivore.
You eat only plants.

YES Do you eat anything else?

You're a carnivore.
You eat only animals.

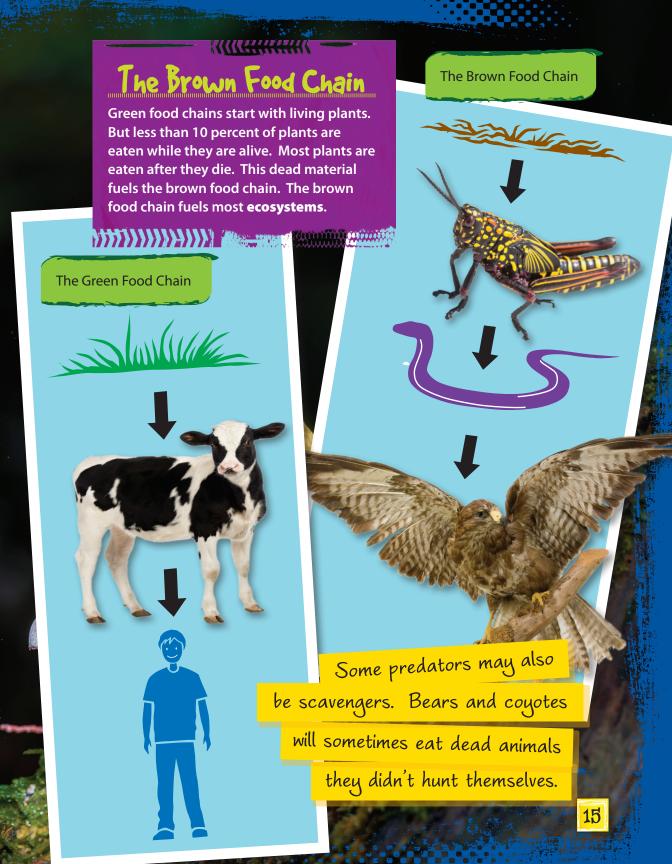
You're an omnivore.
You eat both plants
and animals.

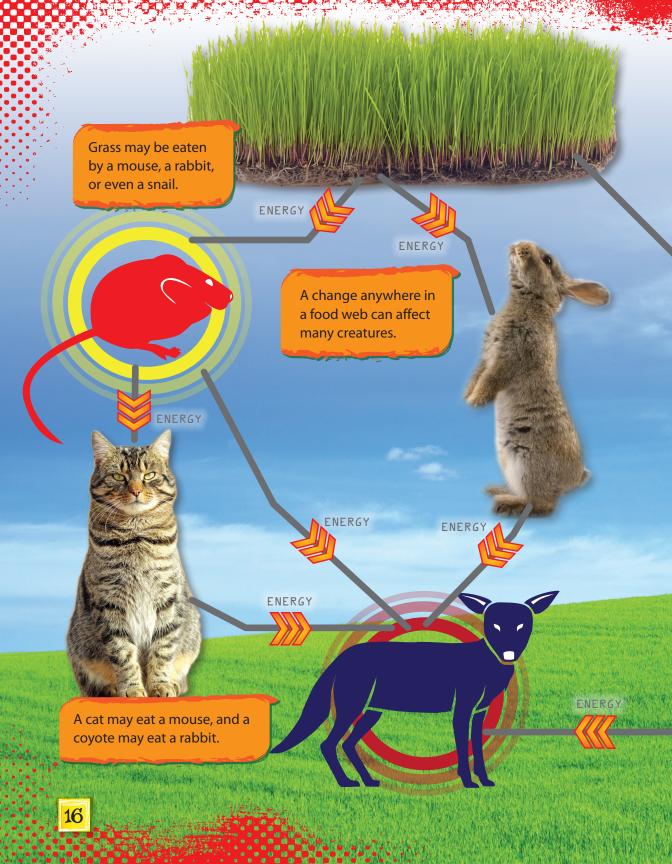


Decomposers Do the Dirty Work

What happens when a powerful animal eats another animal? Is that the end of the food chain? Not by a long shot! At some point, that animal is going to die. That's when **scavengers** and **decomposers** start their work.

Have you ever seen a dead animal in the road? You might see birds or other small animals eating it. When an animal dies, it's eaten by other animals. These animals are known as *scavengers*. Then, it's time for decomposers to spring into action. **Bacteria**, mushrooms, and worms are examples of decomposers. They break down the nutrients that are left in dead plants and animals. They return them to the soil. Those nutrients become food for plants to use—and the food chain begins again.







Plants and animals rely on one another to live. In an ecosystem, each living thing is part of many different food chains. The food chains crisscross and overlap. When you look at all the connected food chains, you end up with something that looks more like a web than a chain.

One light touch can set a whole spiderweb shaking. Food webs work the same way. A small change in one area of the web can change the whole ecosystem. Food webs show how each plant and animal is important.

ENERGY

ENERGY

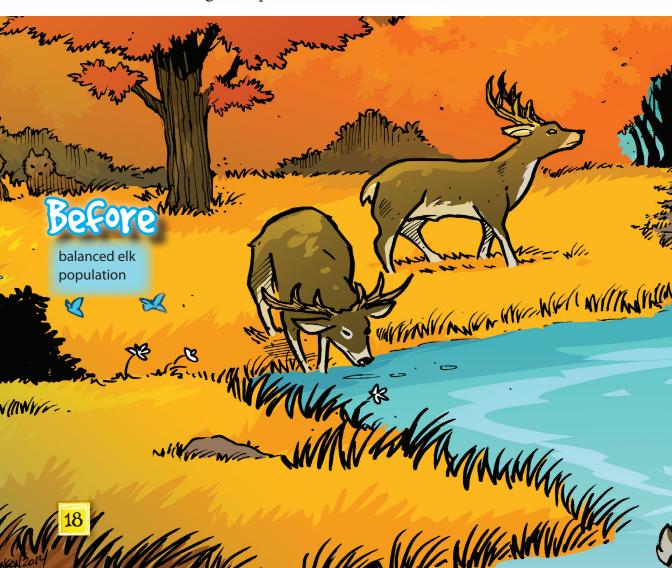
A bird may eat a snail.

How Does Your Garden Grow?

Consider a simple garden. If an animal or plant in the food chain is threatened, it affects the entire garden.

What will happen if one living thing becomes **endangered**? Think of it as a woven blanket. If you pull out just one thread, the whole blanket can unravel. It is the same thing with an ecosystem. The loss of just one species can unravel the whole thing.

Long ago, hundreds of thousands of wolves roamed the United States. They hunted elk, deer, and moose. The wolves kept the numbers of those animals under control. But wolves became a threat. And humans began hunting them. Before long, wolves became an endangered species.

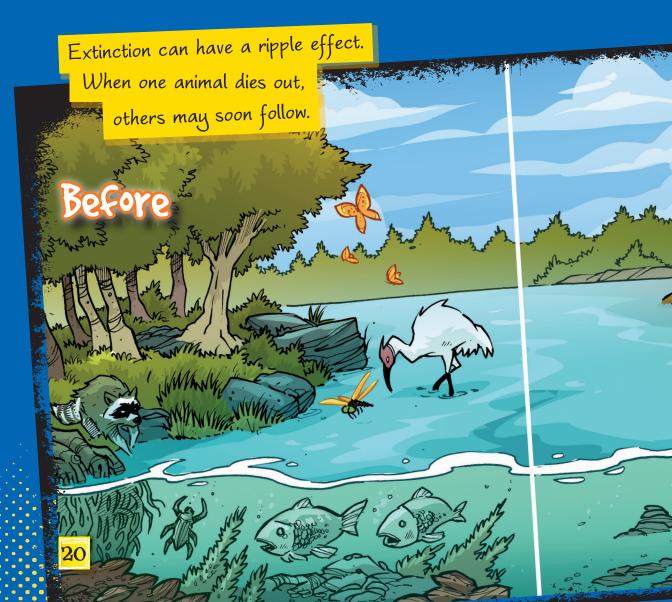


With the wolves almost gone, the number of elk was out of control. That meant the willow trees the elk grazed on were now in short supply. Fewer trees meant there was no food or shelter for songbirds. Songbirds eat mosquitos. But with the birds dying, the number of mosquitos began growing. And nobody wanted that!

Great beasts such as the sabertooth cat roamed the planet during the Ice

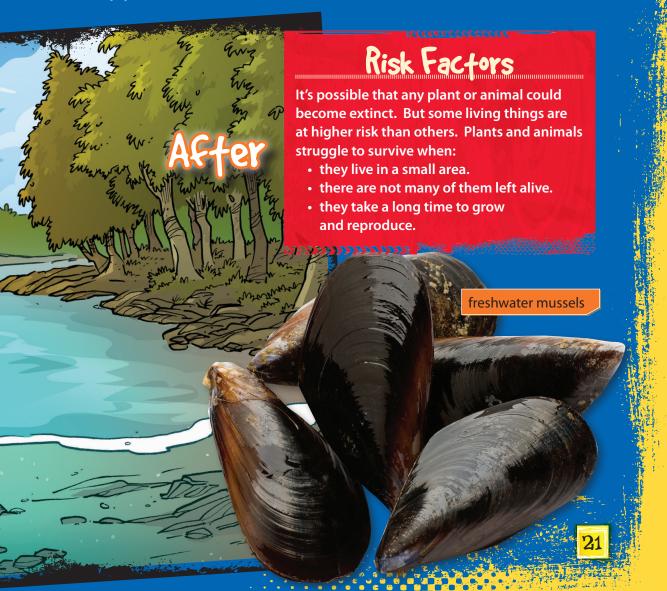


Most endangered species aren't as regal as the wolf or the sabertooth cat. But they are just as important. The freshwater mussel is not much to look at. But it plays a key role in its ecosystem. It lives in North American lakes and rivers. The mussel is a food source for many kinds of life. Raccoons, otters, and herons are a few of the animals that eat them. Mussels also clean the water they live in. They make the ecosystem better for other species of fish, bugs, and worms that live there.



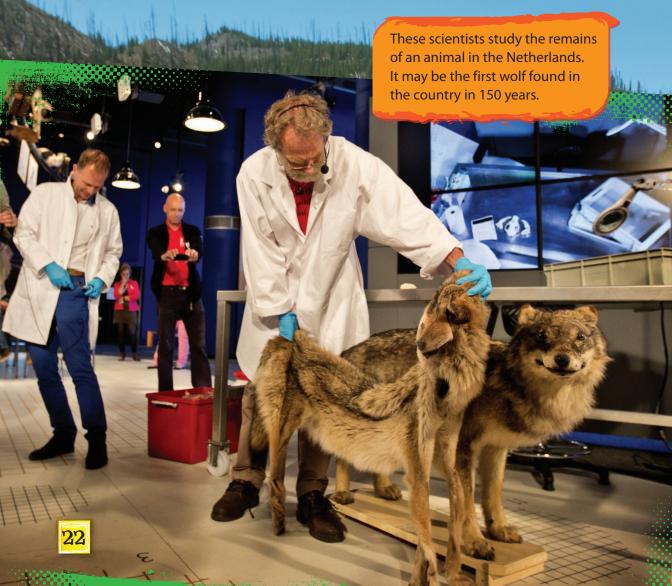
But the mussel is in trouble. Most of the 300 species of mussels are threatened. Experts think pollution is killing them. Toxins in the runoff from farms and cities are getting into the water they live in. This puts the entire ecosystem in danger.

New species of plants and animals are being discovered all the time, so experts aren't sure exactly how many there are. But they estimate that between 200 and 100,000 species become **extinct** every year.





Some scientists argue that we can restore ecosystems if we make space for them. They look for land that is not being used. Then, they bring in key species. They try to undo some of the damage that has been done. In time, these areas can become wild again. This practice is called *rewilding*.



The loss of wolves in an ecosystem can be devastating. Their reintroduction during rewilding can turn an ecosystem around. In 1995, 41 wolves were reintroduced into Yellowstone National Park. Their presence changed the ecosystem. Soon, there were less deer in the park. That allowed more plants to grow. Birds and beavers began to return. Ducks, frogs, and more fish followed. The wolves ate the coyotes. That meant more rabbits and mice could survive. And that provided more food for eagles and hawks. The park became a richer, more alive place.



In the past, scientists tried taking away or adding species over and over to ecosystems. Rewilding is different. Scientists study an ecosystem. They add essential animals to the environment. And then, humans step back and let nature take over.

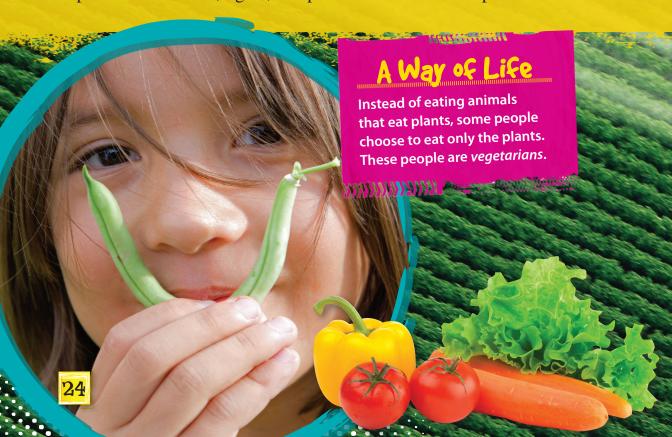
Yellowstone is now home to over 400 wolves!

Where Do You Fit In?

So where do you fit into the food web?

Some people think that humans are at the top of the food chain. That is because nothing hunts humans. But that's only true today. Long ago, humans were hunted by large predators.

Experts say we are closer to the middle of the food chain. This is because we eat a mix of plants and animals. Only carnivores are considered to be at the top of the food chain. They don't have any predators. Whales, tigers, and polar bears are at the top.



But humans can play another role, too. There are many things humans do that can harm the delicate balance of food webs. For instance, farmers kill bugs that eat their crops. But those bugs may be the main food source for a type of bird. If the bird doesn't have that bug to eat, that species of bird may start dying. It may even become extinct. The animals that rely on that bird for food may then be threatened, too. The loss of one type of bug can disrupt the balance of an entire food web. The same thing can happen when humans hunt or fish too many of one animal.

Shh!

Marin Marin

Studies show that the sounds humans make with traffic and machines can damage ecosystems. Birds and other animals often change the way they act around loud noises. Even plants appear affected by loud noises.

Change is natural. Many of the threats to food webs come from nature. Natural disasters, such as floods or wildfires, can kill many animals. But most of the threats to food webs come from humans. Our actions affect all the living things around us. And scientists are just beginning to see how we are all connected. In big and small ways, every plant, animal, boy, and girl makes a difference. Whether it's a gooey glob of bacteria or a wild monkey, every creature plays a role.

It is up to us to protect our planet. It's our home. And it is the home of every other creature on it. The web of life will always continue if we maintain balance.





DON'E

release pets into the wild. They may not survive, and it could disrupt the ecosystem.

DON'E

litter. Animals can get sick or die from eating our trash.

plant trees and bushes that are native to your area.

Trees clean the air and create homes for animals.

educate others! Write letters to decision makers so they are aware of the needs of wildlife in your area.

volunteer at or visit a national park. You can understand the importance of every living thing if you see it yourself.

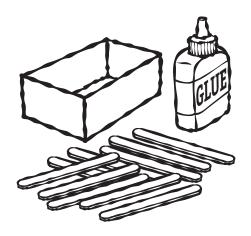
MAKE POLIFIER RENCE

Think Like a Scientist

How can a change in one part of a food web affect the entire web? Experiment and find out!

What to Get

- craft sticks
- glue
- shoe box, tray, or other small box

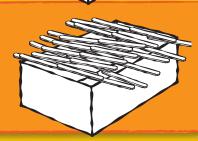


What to Do

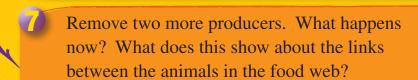
- Glue three craft sticks together to make a long stick. Your long stick represents producers.

 Make six long sticks.
- Glue two craft sticks together to make a medium stick. Your medium stick represents primary consumers. Make seven medium sticks.
- Place the producers across the box.

 Make sure they cross each other and that no sticks fall inside the box.
- Place the primary consumers on top of the producers. Make sure none of the sticks fall into the box.



- Use individual craft sticks to represent secondary consumers. Place these sticks on top of the primary consumers.
- Remove one producer. What happens when one producer is removed?





- bacteria—tiny organisms that break down dead plants and animals
- carnivore—an animal that eats meat
- **decomposers**—living things that feed on and break down dead plants or animals
- ecosystems—everything that exists in particular environments
- endangered—used to describe an animal or plant that is at risk of completely dying out
- energy—power that can be used
 to do something
- extinct—no longer existing
- herbivores—animals that only eat plants

- **omnivore**—an animal that eats both plants and animals
- organisms—living things
- primary consumers—living
 things that only eat producers
- **producers**—living things that make their own food
- scavengers—animals that feed on dead or decaying animals
- secondary consumer—an animal that eats primary consumers
- species—groups of animals or plants that are similar and can produce young animals or plants

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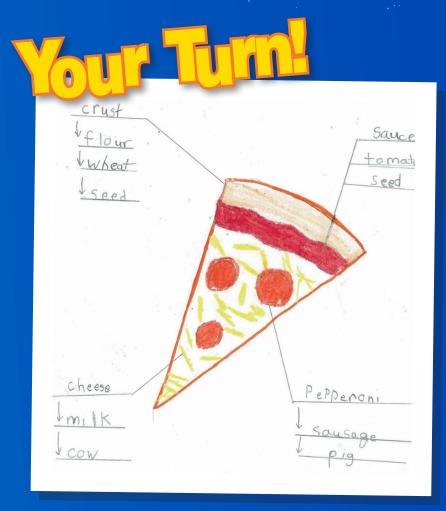
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What's Your Web?

Make a list of the foods you eat most often. Then, break those foods down into their raw ingredients. Draw arrows from each ingredient to show all the other animals and plants that play a part in that ingredient getting to your plate. Can you find where the sun's energy goes in each food chain?