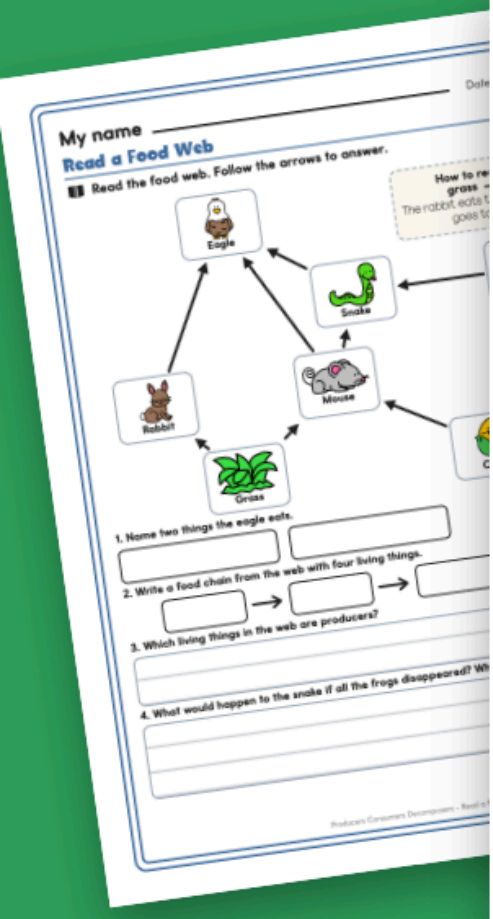
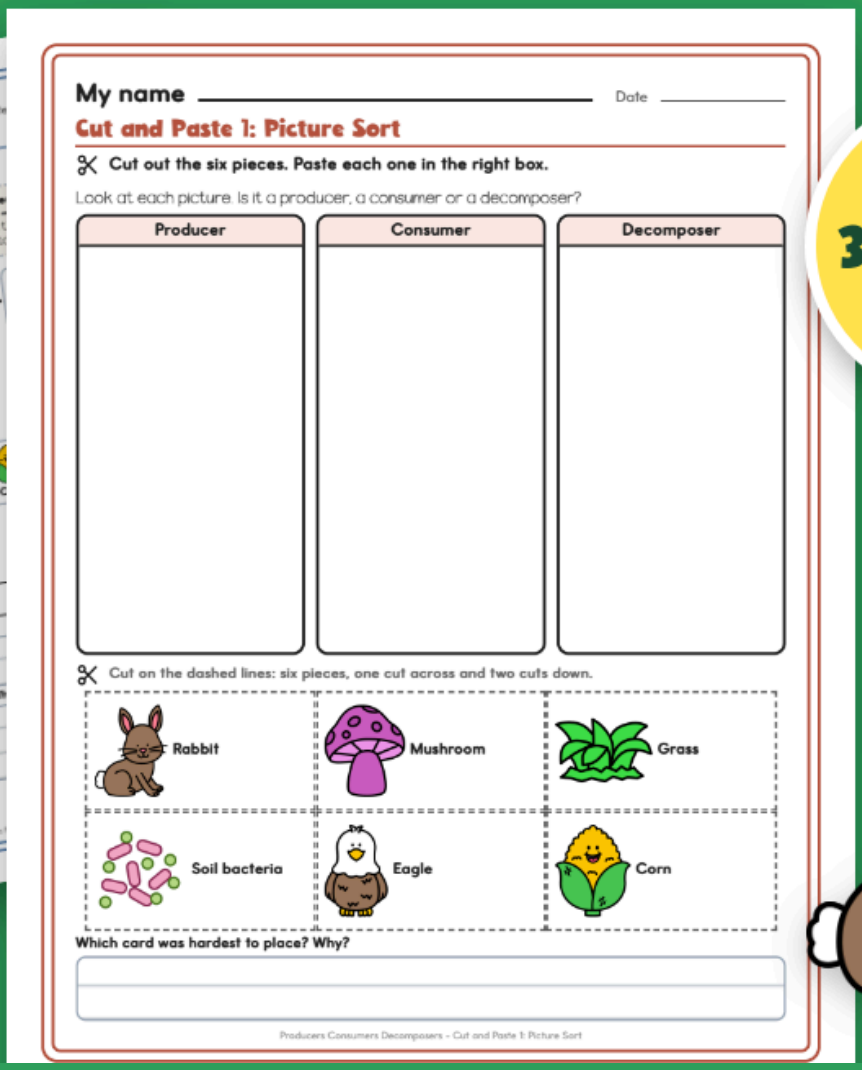
PRODUCERS CONSUMERS DECOMPOSERS

WORKSHEETS · FOOD CHAINS · SORT · GRADES 6-8





37 PAGES



Bright Path Sped

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This is a fillable PDF

- Open it in a PDF reader (Adobe Acrobat Reader, Preview, or your browser), click into a line or a box, type, and Save As.
- The name line, every answer box, every ruled work box and every check box on the student pages are type-in fields, and so are the tracker, class grid, team note and family page. You can also print any page and write by hand.
- It works offline. No account, no subscription, no internet connection needed after you download it.

Print at 100 percent

Turn off fit to page and shrink to fit so the ruled lines stay 0.34 inch apart and the cut pieces stay 2.4 by 1.25 inches. Every student page prints clean in black and white, so it still reads when copied in black and white.

Student work

A filled-in tracker, class grid or team note carries a real student's name. Keep it in the data folder, and use a first name only on any page that leaves your hands.

Need help?

If a field will not behave or a page will not print the way you expect, use Ask a Question on the product page before leaving a review. Every question is read, and a fix to the file ships as a free update: re-download it any time from My Purchases.

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PREVIEW

Preview · Bright Path Sped

How To Read a Page

The parts of a student page, then the page types in the order they come.

The parts of a page

- **The answer box.** A bordered box for a letter, a number or a name. Click it to type, or print and write in it.
- **The ruled work box.** Lines 0.34 inch apart for sentences. Write one idea to a line.
- **The check box.** True or false, producer, consumer or decomposer: click or mark.
- **The word bank.** A box of words to use. Every word is used once.
- **The cut line.** Six pieces in a 3 by 2 grid, each 2.4 by 1.25 inches, edge to edge: one cut across and two down.

Page type	What it looks like	What the student does
Readings and words	4 pages	Read, answer, match six words, then say who is a producer, a consumer or a decomposer.
Cut-and-paste sorts	3 pages, 18 pieces	Sort picture cards, then animals by what they eat, then facts.
Food chains	2 pages, 18 boxes	Put living things in order, then name each step of a chain.
Food web	1 page, 10 arrows	Follow the arrows, write a chain, say what happens if one living thing is gone.
Energy	2 pages, 15 items	Fill in a pyramid with the 10 percent rule, fill in the blanks, do the energy math.
True or false, mistakes	2 pages, 12 items	Check sentences, find and fix Dev's mistakes.
Writing	3 pages	Short answers, a claim-evidence-reasoning page about leaf bags, three exit tickets.
Quizzes	12 items	Two quizzes and a self check.

PREVIEW

Untimed, unscored on the page

No student page has a timer or a score on it. The keys and the tracker are for you. The answer keys are on pages 25 to 28.

Short answers

The short-answer key (page 28) says what to look for, not one right sentence. Accept any answer that uses a fact from the readings.

Printing and the type-in fields

Every page prints clean in black and white. The name line, every answer box, every ruled box and every check box are type-in fields in any PDF reader: click one, type, then save. This is a fillable PDF, not a slideshow or a word-processor file.

Room to work

Work boxes hold two or more lines. If a student needs more room, hand over one page a day, or let students write on scrap paper and copy their best sentences into the box.

Preview · Bright Path Sped

My name _____ Date _____

Reading 1: Producers and Consumers

Read about producers and consumers. Then answer.

Who makes food and who eats it

Every living thing in an ecosystem needs energy. **Producers** make their own food. Plants, algae and some bacteria are producers. Most of them use sunlight to make sugar by photosynthesis, so the energy in a producer began as light from the sun. **Consumers** cannot make their own food. They get energy by eating other living things. A **herbivore** eats only plants, like a rabbit eating grass. A **carnivore** eats only other animals, like an eagle eating a snake. An **omnivore** eats both plants and animals, like a bear. Scientists also name consumers by what they eat. A **primary consumer** eats producers. A **secondary consumer** eats primary consumers. A **tertiary consumer** eats secondary consumers.

Main idea: What is this reading mostly about?

Check what you read. Write the letter in the box.

1. Which living things make their own food?
   - **A** Producers
   - **B** Consumers
   - **C** Decomposers

   ☐

2. What does an omnivore eat?
   - **A** Only plants
   - **B** Both plants and animals
   - **C** Only animals

   ☐

3. A rabbit eats grass. What is a rabbit?
   - **A** A carnivore and a secondary consumer
   - **B** An omnivore and a producer
   - **C** A herbivore and a primary consumer

   ☐

PREVIEW

Preview · Bright Path Sped

My name _____ Date _____

Science Words

Match each word to what it means.

Write the letter of the meaning in the box. Use the readings to help you.

1	**producer**		A	A consumer that eats only animals.
2	**consumer**		B	A living thing that breaks down dead plants and animals.
3	**decomposer**		C	A consumer that eats both plants and animals.
4	**herbivore**		D	A living thing that gets energy by eating other living things.
5	**carnivore**		E	A consumer that eats only plants.
6	**omnivore**		F	A living thing that makes its own food, such as a plant.

Use two of the words in one sentence about a meadow.

PREVIEW

Preview · Bright Path Sped

My name _____ Date _____

Cut and Paste 1: Picture Sort

Cut out the six pieces. Paste each one in the right box.

Look at each picture. Is it a producer, a consumer or a decomposer?

Producer	Consumer	Decomposer

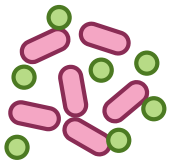
PREVIEW

Cut on the dashed lines: six pieces, one cut across and two cuts down.


Rabbit


Mushroom


Grass


Soil bacteria


Eagle


Corn

Which card was hardest to place? Why?

My name _____ Date _____

Cut and Paste 3: Word Sort

Cut out the six pieces. Paste each one in the right box.

Read each piece. Does it tell about a producer, a consumer or a decomposer?

Producer	Consumer	Decomposer

PREVIEW

Cut on the dashed lines: six pieces, one cut across and two cuts down.

Gets energy by eating other living things.	Makes its own food, often with sunlight.	Breaks down dead plants and animals.
Is the first link in every food chain.	Returns nutrients to the soil.	Can be a herbivore, a carnivore or an omnivore.

Which piece did you move? Why?

Preview · Bright Path Sped

My name _____ Date _____

Follow the Arrows

Follow the arrows. Write what each one is.

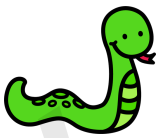
secondary consumer	producer	tertiary consumer	primary consumer

1 Write what each one is in the chain.


Corn


Snail


Frog


Snake

2 Write what each one is in the chain.


Grass


Rabbit


Eagle

If all the snails disappeared, what would happen to the frogs? Why?

Where would decomposers fit in these chains?

PREVIEW

Preview · Bright Path Sped

My name _____ Date _____

Energy Pyramid

Fill in the energy at every step.

Only about 10 percent of the energy moves up to the next step. To find 10 percent, divide by 10.

1. Energy at each step (units). Take 10 percent of the step below.



Tertiary consumers _____



Secondary consumers _____



Primary consumers _____



Producers 10,000

2. Start with 2,000 units. Fill in the next two steps.

2,000 → _____ → _____

Where did the producers get their energy?

Why are there fewer eagles than rabbits?

PREVIEW

Preview · Bright Path Sped

My name _____ Date _____

True or False

Is it true or false? Check one.

Check true or false for each sentence.

1. Producers make their own food. ☐ true ☐ false
2. Decomposers are producers. ☐ true ☐ false
3. An arrow in a food chain points from the eater to its food. ☐ true ☐ false
4. A bear is an omnivore. ☐ true ☐ false
5. All of the energy in a food chain moves up to the next step. ☐ true ☐ false
6. Mushrooms are decomposers. ☐ true ☐ false
7. Without decomposers, nutrients would stay locked inside dead plants and animals. ☐ true ☐ false
8. A herbivore eats both plants and animals. ☐ true ☐ false

Pick one false sentence. Fix it so it is true.

PREVIEW

My name _____ Date _____

Short Answers

Answer each question in sentences.

Use facts from the readings. Write in sentences.

1. Tell what producers, consumers and decomposers each do. Write one sentence for each.

2. Why does a food chain usually have only three or four steps?

3. Imagine a forest with no decomposers. What would happen to the dead leaves and to the soil? Explain.

PREVIEW

Preview · Bright Path Sped

My name _____ Date _____

Quiz A

Pick the best answer. Write its letter.

Take your time. Guess if you are not sure.

1. Which living thing is a producer?
   - A A mushroom
   - B A maple tree
   - C A rabbit

2. What do decomposers return to the soil?
   - A Nutrients
   - B Sunlight
   - C Heat energy

3. Which animal is a carnivore?
   - A A cow
   - B A deer
   - C An eagle

4. What does the arrow in grass → rabbit mean?
   - A The rabbit gives energy to the grass
   - B Energy moves from the grass to the rabbit
   - C The grass eats the rabbit

5. Which group makes its own food?
   - A Consumers
   - B Decomposers
   - C Producers

6. A bear eats berries and fish. It is an...
   - A omnivore
   - B herbivore
   - C carnivore

PREVIEW

Preview · Bright Path Sped

My name _____ Date _____

Exit Tickets

Answer each ticket before you go.

Each ticket takes about two minutes. Your teacher may collect them at the door.

1. Draw a food chain with three living things. Put the arrows the right way.

2. Tell what would happen to a forest if all the decomposers disappeared.

3. What is one question about food chains that you still have?

PREVIEW

Answer Key: Readings, Words, Who, Quizzes

Every letter is the position of the right option in the printed list.

Readings pages 5, 6

Item	Letter	Answer
5.1	A	Producers
5.2	B	Both plants and animals
5.3	C	A herbivore and a primary consumer
6.1	C	Break down dead plants and animals
6.2	A	From the food to the one that eats it
6.3	B	About 10 percent

Science Words page 7

Word	Letter	Meaning
1. producer	F	a living thing that makes its own food, such as a plant
2. consumer	D	a living thing that gets energy by eating other living things
3. decomposer	B	a living thing that breaks down dead plants and animals
4. herbivore	E	a consumer that eats only plants
5. carnivore	A	a consumer that eats only animals
6. omnivore	C	a consumer that eats both plants and animals

Quizzes pages 21, 22

Item	Letter	Answer
21.1	B	A maple tree
21.2	A	Nutrients
21.3	C	An eagle
21.4	B	Energy moves from the grass to the rabbit
21.5	C	Producers
21.6	A	omnivore
22.1	A	100
22.2	C	Bacteria in the soil
22.3	B	Less energy is left at each higher step
22.4	A	secondary consumer
22.5	C	Corn → snail → frog
22.6	B	Dead matter would pile up and nutrients would stay locked in it

Who Is It? page 8

Picture	Check
1. Cactus	Producer
2. Owl	Consumer
3. Mushroom	Decomposer
4. Snail	Consumer
5. Corn	Producer
6. Frog	Consumer

PREVIEW

Answer Key: Chains, Web, Energy

Accept any correct wording on the writing lines.

Build a Food Chain page 12

Chain	Boxes, left to right
Chain 1	Grass → Rabbit → Eagle
Chain 2	Corn → Snail → Frog → Snake
Chain 3	Grass → Mouse → Snake → Eagle

Follow the Arrows page 13

Chain	Each step
Chain 1	Corn: producer, Snail: primary consumer, Frog: secondary consumer, Snake: tertiary consumer
Chain 2	Grass: producer, Rabbit: primary consumer, Eagle: secondary consumer

Energy Pyramid page 15

Step	Units of energy
Tertiary consumers	10
Secondary consumers	100
Primary consumers	1,000
Producers	10,000
Part 2: next two steps	200 then 20

The 10 percent rule

- Each step is 10 percent of the step below it: divide by 10. 10,000 gives 1,000, then 100, then 10. 2,000 gives 200, then 20. 8,000 gives 800, then 80.
- About 10 percent is a simple rule of thumb; real food chains vary.

Read a Food Web page 14

Arrow from	To (the eater)
Grass is eaten by	Rabbit, Mouse
Corn is eaten by	Mouse, Snail
Rabbit is eaten by	Eagle
Mouse is eaten by	Snake, Eagle
Snail is eaten by	Frog
Snake is eaten by	Eagle
Frog is eaten by	Snake

Writing on the web page

- 1. The eagle eats the snake, rabbit, mouse: any two.
- 2. Any path that follows the arrows, such as Corn → Snail → Frog → Snake or Grass → Mouse → Snake → Eagle.
- 3. Producers: the grass and the corn.
- 4. The snake would still eat mice, but it would lose one food. If mice were few too, the snake could go hungry.

Energy Words page 16

Item	Answer
1	sun
2	Producers
3	food chain
4	10 percent
5	heat
6	Decomposers
7	herbivore
8	omnivore
9a	800
9b	80

PREVIEW

Producers, Consumers, Decomposers Tracker

One student, every scored page. Filled example: page 33.

Student _____ Teacher _____ Month _____

Page	Page type and set	Items	Right	Date	Notes
5	Reading 1: Producers and Consumers	3			
6	Reading 2: Decomposers and Energy	3			
7	Science Words	6			
8	Who Is It?	6			
9	Cut and Paste 1: Picture Sort	6			
10	Cut and Paste 2: What Do They Eat?	6			
11	Cut and Paste 3: Word Sort	6			
12	Build a Food Chain	11			
13	Follow the Arrows	7			
15	Energy Pyramid	5			
16	Energy Words	10			
17	True or False	8			
18	Find the Mistake	4			
21	Quiz A	6			
22	Quiz B	6			

How to fill this in

Write how many items the student got right with no prompt, and the date. A blank means not tried yet, never wrong. There are 93 items on the 15 scored pages. Answer keys: pages 25 to 28. Filled example: page 33.

This month we are working on (your own standard or wording)

PREVIEW

Team Note

Use this page between team meetings or when a student moves classes, to hand off what changed without writing a note from scratch. Everything below is observable, with a blank for the number or the wording your team already uses.

Student _____ Team member _____ Date _____

Page type	Covered since last note (Y/N)	Items right	Still blank
Readings and words			
Who is it			
Sorts			
Food chains			
Energy			
True or false			
Find the mistake			
Quizzes			

What I saw (observable, not a conclusion)

- Put ___ of 11 food chain boxes in the right order without a prompt (page 12).
- Got ___ of 15 energy items right (pages 15, 16).
- Got ___ of 8 true or false sentences right (page 17).
- Said which way an arrow in a food chain points: yes / no / with a reminder.

Next step

- Next page or set: ___, because ___ (what you saw).
- What to try in another class or at home: ___.
- What to keep doing because it is working: ___.
- Anything for the team meeting to decide: ___ (this page records what happened, never a label or a plan).

Summary, in one or two sentences, for whoever reads this next

A filled-in line, for reference

"Got 7 of 8 true or false sentences right on 10/22. Next step: reread Reading 2 and ask which way the energy moves up a food chain." That is the level of detail this page is built for. It matches the filled example on page 33.

PREVIEW

Maya's Tracker (Invented Student)

Maya R. is invented; nothing on this page describes a real student. The blank tracker is on page 29.

Student	Teacher	Month
Maya R. (an invented student)	Mr. Okafor (invented)	October

Page	Page type and set	Items	Right	Date	Notes
5	Reading 1: Producers and Consumers	3	3	10/6	-
6	Reading 2: Decomposers and Energy	3	2	10/7	Missed which way an arrow points
7	Science Words	6	5	10/8	Mixed up herbivore and omnivore
8	Who Is It?	6	5	10/9	Called the mushroom a consumer
9	Cut and Paste 1: Picture Sort	6	6	10/13	-
10	Cut and Paste 2: What Do They Eat?	6	5	10/14	Put the bear with the herbivores
11	Cut and Paste 3: Word Sort	6	-	-	-
12	Build a Food Chain	11	9	10/16	Wrote one chain backward
13	Follow the Arrows	7	-	-	-
15	Energy Pyramid	5	4	10/20	Took 10 percent twice
16	Energy Words	10	-	-	-
17	True or False	8	7	10/22	Thought all energy moves up
18	Find the Mistake	4	-	-	-
21	Quiz A	6	5	10/27	Mixed up decomposer and consumer
22	Quiz B	6	-	-	-

How to read it

Maya R. has done **10 of 15** scored pages and got **51 of 60** items right with no prompt. **2** pages were all right and **8** carry a note. Every number comes from the table.

What the table points to

The lowest page is Reading 2: Decomposers and Energy (2 of 3). That is where the next practice goes. The 5 pages left blank are not tried yet, never wrong.

PREVIEW

Binder Cover

Slide this into the front of a binder. Type a name in the two fields or write it by hand. The divider tabs and a spine label to cut out are on the next page (page 36).

Science - Life Science

PRODUCERS CONSUMERS DECOMPOSERS

Sort, Build and Practice

Producers | **Consumers** | **Decomposers**

Food Chain | **Energy**

Teacher _____

Class or student _____

PREVIEW