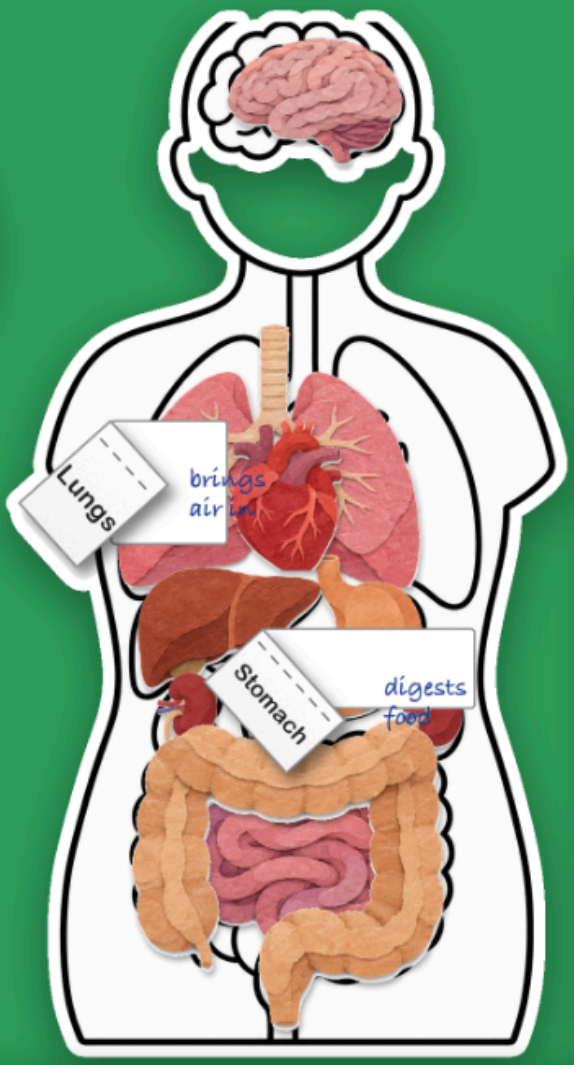
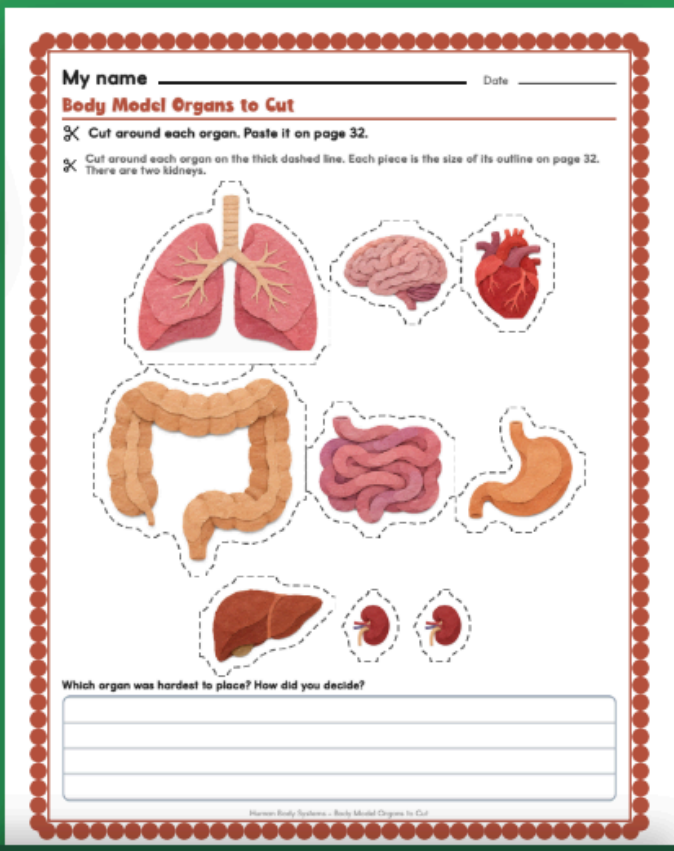
Bright Path Sped

8 SYSTEMS




My name _____ Date _____

Body Model Organs to Cut

Cut around each organ. Paste it on page 32.

Cut around each organ on the thick dashed line. Each piece is the size of its outline on page 32. There are two kidneys.

Which organ was hardest to place? How did you decide?

HUMAN BODY SYSTEMS

Lift-the-Flap Body Model - Grades 6-8

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- Open it in a PDF reader (Adobe Acrobat Reader, Preview, or your browser), click into a line or a box, type, and Save As.
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Print at 100 percent

Turn off fit to page and shrink to fit so the ruled lines stay 0.34 inch apart. Every student page is black and white inside a colored border, 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.

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PREVIEW

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 or a part name. Click it to type, or print and write in it.
- **The ruled work box.** Lines 0.34 inch apart. Each box grows to fill its page, so it holds at least 4 lines for a short answer and at least 3 for a main idea, key fact or diagram box, usually more. It types and prints.
- **The check box.** True or false: click or mark one.
- **The diagram.** A drawing with numbered dots, a word bank above it and a blank box for each number.
- **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 cuts down.

Page type	What it looks like	What the student does
The Big Picture, Words to Know	2 pages, 12 items	True or false on cells to systems; match eight words to their meanings.
8 Readings	16 checks	Read, write the main idea and a key fact, answer two checks with a letter.
8 Diagrams	46 parts	Name each numbered part from a word bank, say what the system does and how it works with another.
Which System?	1 page, 10 items	Write the letter of the system each organ belongs to.
Systems Work Together, Think It Through	3 scenarios, 6 questions	4 lines per question; two boxes per scenario.
Quiz, Cut and Paste	12 items, 18 pieces	A quiz in two parts and three cut-and-paste mats (jobs, food path, facts).

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 36 to 39.

A short account, not a full textbook

Each reading is a summary of one system in plain words. It is not a complete anatomy course, and it is not tied to any particular standard. The diagrams are simple drawings, not exact anatomy. Add your own textbook or a model for more depth.

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.

Open answers

Main ideas, short answers, the writing boxes and the scenarios are open. The keys give a sample and what to look for. Accept any answer that is true to the readings and explains its reason.

PREVIEW

Preview - Bright Path Sped

My name _____ Date _____



The Big Picture

Read the big idea. Then check true or false.

Your body is made of many parts that work together. Here are the big ideas.

Cells	Cells are the tiny building blocks of all living things. Similar cells that work together form a tissue, such as muscle tissue.
Organs	Different tissues join to make an organ, such as the stomach or the heart. Every organ has one main job.
Systems	Organs that work together make an organ system. This pack has eight readings, one for each: digestive, respiratory, circulatory, nervous, skeletal, muscular, excretory and immune.
Teamwork	No system works alone. The respiratory system brings in oxygen, and the circulatory system delivers it to every cell.

Try it. Is each sentence true or false?

1. An organ system is a group of organs that work together to do a job. ☐ true ☐ false

2. Each body system works alone and never needs another system. ☐ true ☐ false

3. The circulatory system carries oxygen and nutrients to the cells. ☐ true ☐ false

4. Cells make up tissues, and tissues make up organs. ☐ true ☐ false

In your own words: what is an organ system?

PREVIEW

Preview - Bright Path Shed

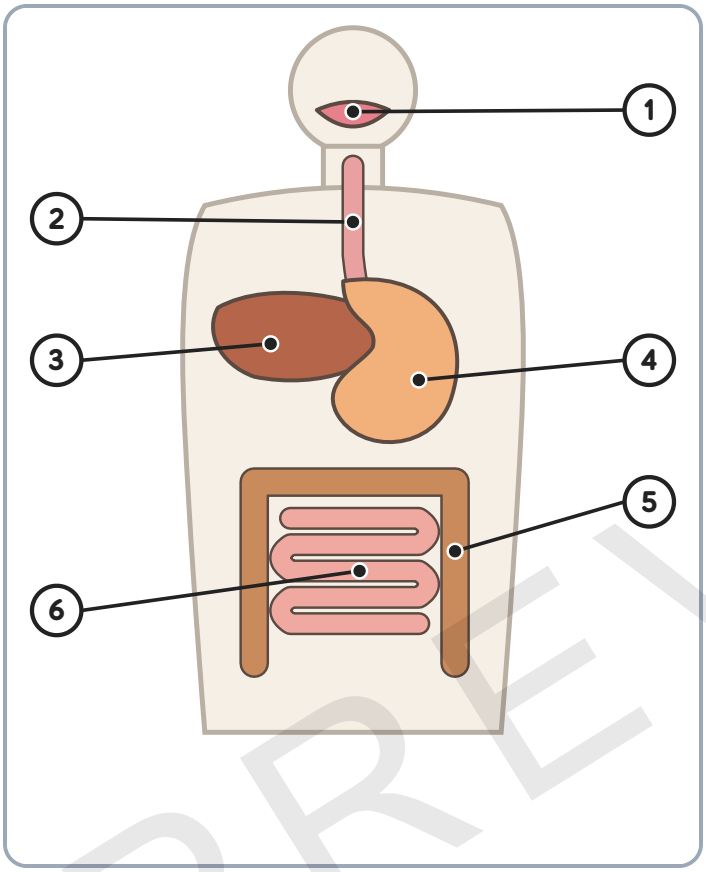
My name _____ Date _____

Label the Digestive System



Write the name of each part. Use the word bank.

liver esophagus mouth small intestine large intestine stomach



1 _____

2 _____

3 _____

4 _____

5 _____

6 _____

What does the digestive system do?

Pick one other system. How does it work with this one?

PREVIEW

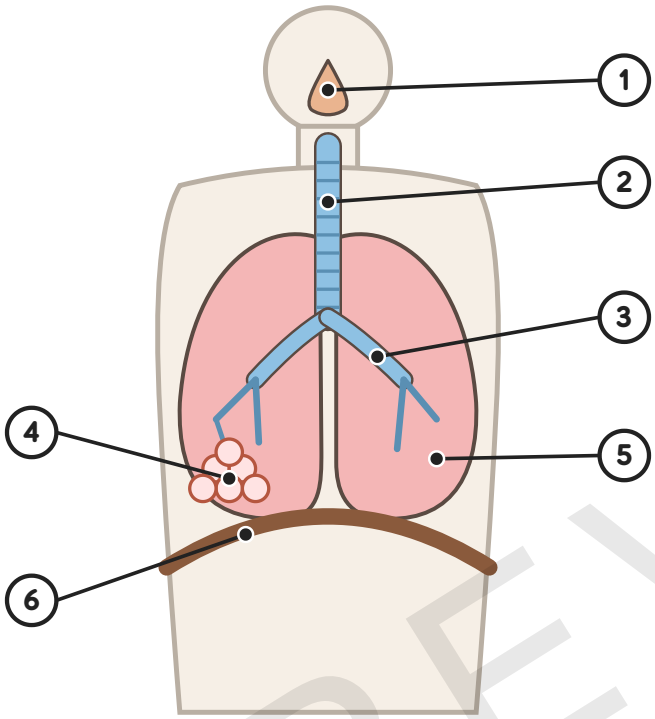
My name _____ Date _____

Label the Respiratory System



Write the name of each part. Use the word bank.

bronchus	trachea	nose	diaphragm	lung	alveoli



1 _____

2 _____

3 _____

4 _____

5 _____

6 _____

What does the respiratory system do?

Pick one other system. How does it work with this one?

PREVIEW

Preview - Bright Path Sped

My name _____ Date _____

The Nervous System



Read the passage. Then write the main idea.

Reading 4 of 8

The nervous system is the body's control and message system. It senses what is happening inside and outside the body, decides what to do and sends orders to muscles and glands. It has two main parts. The central nervous system is the brain and the spinal cord. The peripheral nervous system is all the nerves that branch out from them to the rest of the body. The basic unit is the neuron, a nerve cell that sends signals as tiny electrical impulses. The brain has three major parts. The cerebrum, the largest part, handles thinking, memory and the senses, and it controls voluntary movement. The cerebellum, at the back, helps with balance and coordination. The brain stem connects the brain to the spinal cord and controls automatic actions such as breathing and heartbeat. The spinal cord, protected by the vertebrae, carries messages between the brain and the body. Some quick responses, called reflexes, are handled by the spinal cord, which makes them faster.

Main idea: What is this passage mostly about?

Key fact: Which fact from the passage do you think is the most important?

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

1. Which part of the brain helps with balance and coordination?
   - **A** The cerebrum
   - **B** The cerebellum
   - **C** The brain stem

2. What is the job of the spinal cord?
   - **A** It carries messages between the brain and the body.
   - **B** It pumps blood.
   - **C** It filters wastes.

PREVIEW

Preview - Bright Path Sped

My name _____ Date _____

The Skeletal System

Read the passage. Then write the main idea.

Reading 5 of 8

The skeletal system is the framework of the body. An adult has 206 bones. Bones support the body, protect organs and give muscles something to pull on. The skull protects the brain, the rib cage protects the heart and lungs, and the vertebrae, which make up the backbone, protect the spinal cord. Bones also store minerals such as calcium, and the soft bone marrow inside many bones makes blood cells. Bones are living tissue. A place where two bones meet is called a joint. The knee and elbow are hinge joints that bend in one direction, while the shoulder and hip are ball-and-socket joints that move in many directions. Ligaments hold bones to each other at a joint, and smooth cartilage cushions the ends of the bones so they do not rub together. The longest bone in the body is the femur, in the thigh. Together with the muscles, the skeleton lets the body stand, walk, run and lift.

Main idea: What is this passage mostly about?

Key fact: Which fact from the passage do you think is the most important?

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

1. How many bones does an adult have?
   - **A** 106
   - **B** 206
   - **C** 306

2. What do ligaments do?
   - **A** They hold bones together at a joint.
   - **B** They make blood cells.
   - **C** They connect muscle to bone.

PREVIEW

Preview - Bright Path Shop

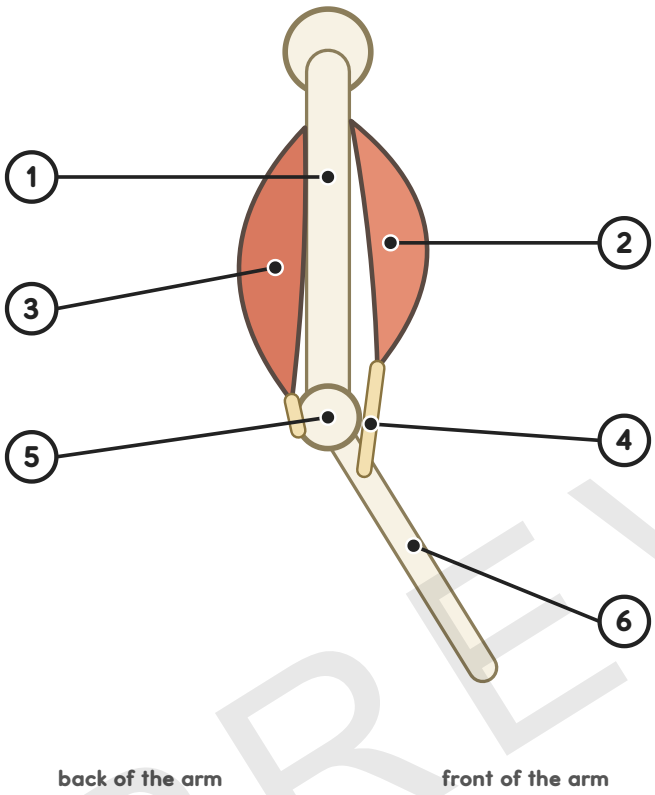
My name _____ Date _____

Label the Muscular System



Write the name of each part. Use the word bank.

triceps biceps humerus radius elbow joint tendon



1 _____

2 _____

3 _____

4 _____

5 _____

6 _____

What does the muscular system do?

Pick one other system. How does it work with this one?

PREVIEW

Preview - Bright Path Shop

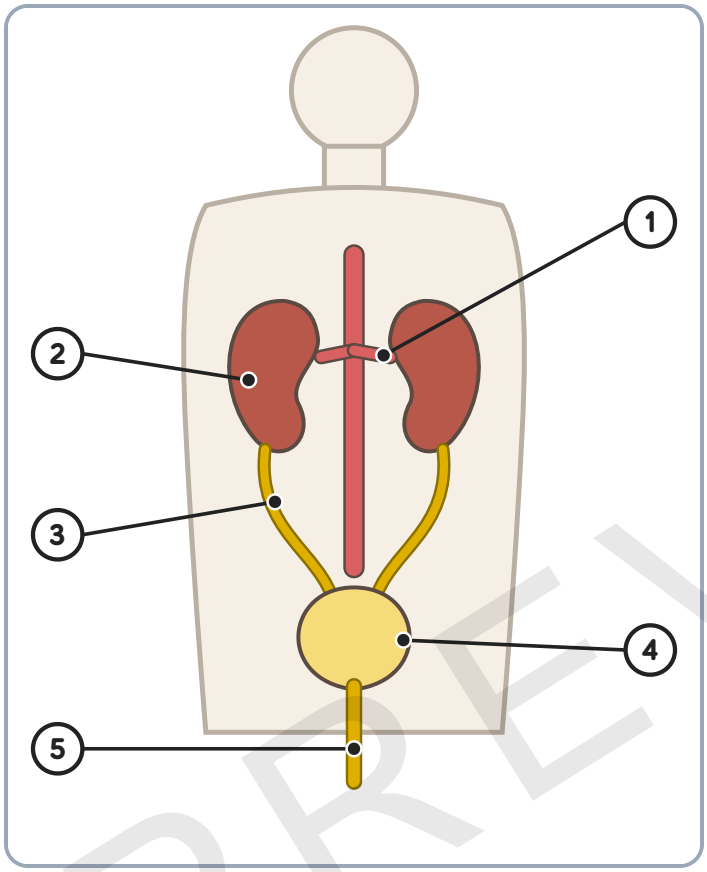
My name _____ Date _____

Label the Excretory System



Write the name of each part. Use the word bank.

ureter	renal artery	bladder	kidney	urethra



1 _____

2 _____

3 _____

4 _____

5 _____

What does the excretory system do?

Pick one other system. How does it work with this one?

PREVIEW

Preview - Bright Path Sped

My name _____ Date _____



Which System?

Write the letter of the system for each organ.

D = digestive R = respiratory C = circulatory N = nervous S = skeletal
M = muscular E = excretory I = immune

Each organ belongs to one main system. Write the letter in each box.

1. stomach
2. trachea
3. aorta
4. spinal cord
5. rib
6. triceps
7. bladder
8. thymus
9. liver
10. cerebellum

Pick one organ. Which other system does it work with, and how?

PREVIEW

Preview - Bright Path Sped

My name _____ Date _____

Think It Through B

Answer each question in full sentences.

Use facts from the readings to answer.

4 Explain how the nervous system and the muscular system work together when you catch a ball.

5 Why do muscles work in pairs? Use the biceps and triceps as an example.

6 Describe two ways the immune system protects the body.

PREVIEW

Preview - Bright Path Sped

My name _____ Date _____

Quiz, Part B

Read each one. Write the letter of the best answer.

Write the letter of the best answer in the box.

7 Where is urine stored before it leaves the body?

A The bladder
B The kidney
C The ureter

8 Which cells attack germs and make antibodies?

A Red blood cells
B White blood cells
C Neurons

9 What pushes food down the esophagus?

A Blood pressure
B Enzymes
C Waves of muscle squeezing

10 What carries oxygen in the blood?

A Platelets
B Red blood cells
C Villi

11 Which part of the brain controls breathing and heartbeat?

A The cerebrum
B The cerebellum
C The brain stem

12 Which two systems work together to bring oxygen to the cells?

A Respiratory and circulatory
B Skeletal and excretory
C Digestive and immune

PREVIEW

Preview - Bright Path Sped

My name _____ Date _____

Cut and Paste 3

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

Each piece is a fact about one system. Paste it in the box for that system.

Excretory	Immune	Skeletal

Muscular	Respiratory	Circulatory

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

Biceps and triceps work as a pair.	Kidneys filter the blood and make urine.	Arteries carry blood away from the heart.
Ligaments hold bones together at joints.	White blood cells make antibodies.	Alveoli trade oxygen and carbon dioxide.

Pick one piece. What other fact do you know about that system?

PREVIEW

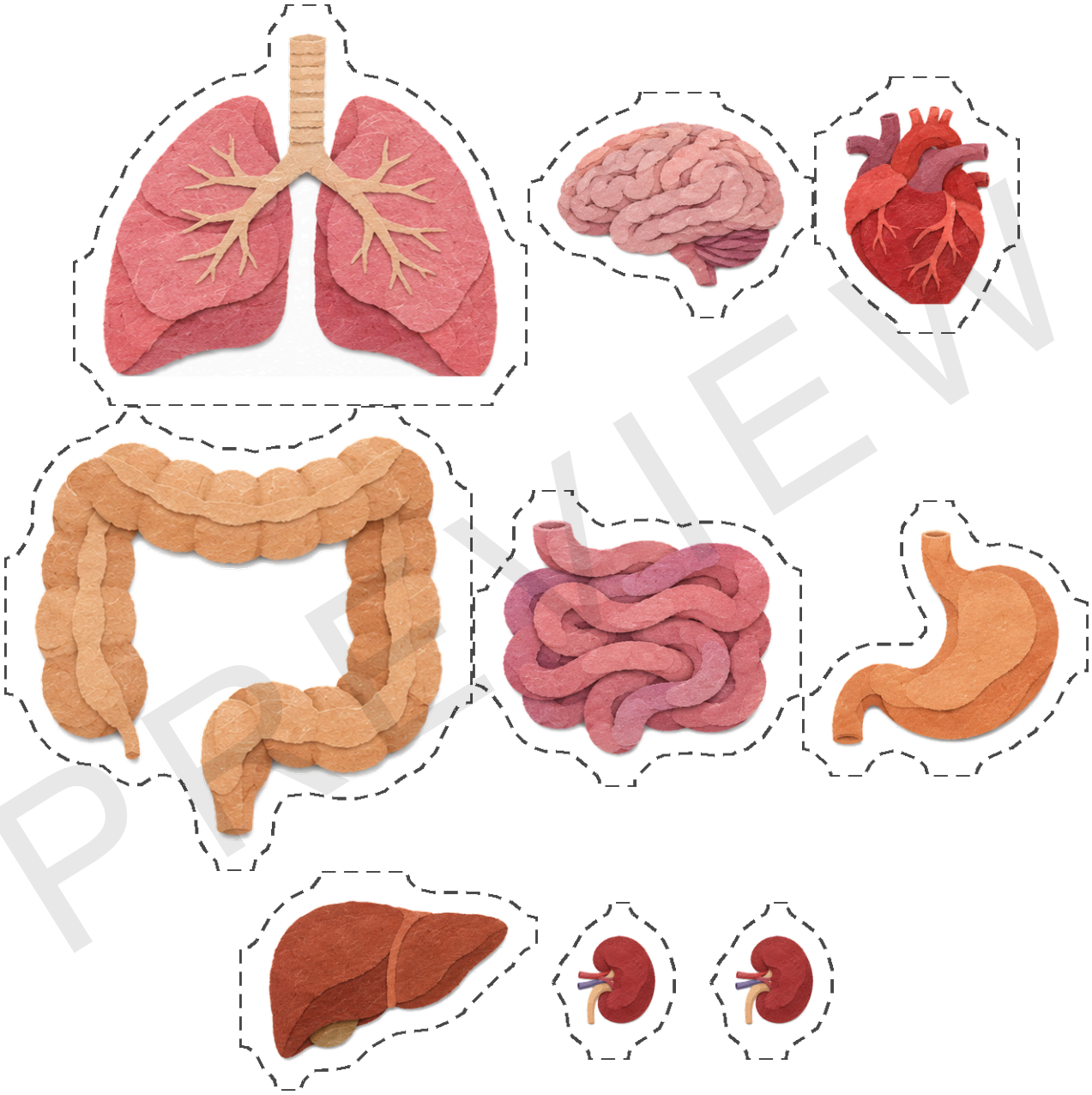
Preview - Bright Path Sped

My name _____ Date _____

Body Model Organs to Cut

Cut around each organ. Paste it on page 32.

Cut around each organ on the thick dashed line. Each piece is the size of its outline on page 32. There are two kidneys.



PREVIEW

Which organ was hardest to place? How did you decide?

Answer Key: Reading, Words, Systems

The big picture, the 16 checks that follow the readings, Words to Know and Which System.

Readings: the checks pages 7, 9, 11, 13, 15, 17, 19, 21

#	Reading	Answer
1	Digestive	B: The small intestine
2	Digestive	C: It absorbs water from what is …
1	Respiratory	A: The diaphragm
2	Respiratory	B: Oxygen enters the blood and carbon …
1	Circulatory	C: Arteries
2	Circulatory	A: So materials can pass between the …
1	Nervous	B: The cerebellum
2	Nervous	A: It carries messages between the brain …
1	Skeletal	B: 206
2	Skeletal	A: They hold bones together at a …
1	Muscular	C: Cardiac muscle
2	Muscular	A: A muscle can only pull, so …
1	Excretory	A: The kidneys
2	Excretory	C: The ureter
1	Immune	A: They attach to a germ and …
2	Immune	B: The skin

The Big Picture page 5

#	Starts with	Answer
1	An organ system is a group …	True
2	Each body system works alone and …	False
3	The circulatory system carries oxygen and …	True
4	Cells make up tissues, and tissues …	True

Words to Know page 6

#	Word	Letter
1	nutrient	G
2	organ	D
3	neuron	C
4	cell	B
5	homeostasis	E
6	organ system	A
7	enzyme	H
8	tissue	F

Which System? page 23

#	Organ	Answer
1	stomach	D (digestive)
2	trachea	R (respiratory)
3	aorta	C (circulatory)
4	spinal cord	N (nervous)
5	rib	S (skeletal)
6	triceps	M (muscular)
7	bladder	E (excretory)
8	thymus	I (immune)
9	liver	D (digestive)
10	cerebellum	N (nervous)

PREVIEW

Answer Key: Quiz and Sorts

The quiz, the three cut-and-paste mats and the body model.

Quiz pages 27, 28

#	Starts with	Answer
1	What do enzymes do in digestion?	A: They help break food into smaller …
2	Which gas do the cells give off as …	B: Carbon dioxide
3	Which side of the heart pumps oxygen-rich blood …	C: The left side
4	What is the basic unit of the nervous …	A: The neuron
5	Which tissue cushions the ends of bones?	B: Cartilage
6	What connects a skeletal muscle to a bone?	C: A tendon
7	Where is urine stored before it leaves the …	A: The bladder
8	Which cells attack germs and make antibodies?	B: White blood cells
9	What pushes food down the esophagus?	C: Waves of muscle squeezing
10	What carries oxygen in the blood?	B: Red blood cells
11	Which part of the brain controls breathing and …	C: The brain stem
12	Which two systems work together to bring oxygen …	A: Respiratory and circulatory

Body model, page 35: its system

Brain: Nervous, Heart: Circulatory, Lungs: Respiratory, Stomach: Digestive, Liver: Digestive, Small intestine: Digestive, Kidney: Excretory, Large intestine: Digestive.

Cut and Paste 1 page 29

Piece (row, column)	Box
r1 c1: Sends signals between the brain …	Nervous
r1 c2: Breaks food into nutrients the …	Digestive
r1 c3: Pulls on bones to make …	Muscular
r2 c1: Pumps blood to every cell.	Circulatory
r2 c2: Protects organs and gives the …	Skeletal
r2 c3: Brings oxygen in and sends …	Respiratory

Cut and Paste 2 page 30

Piece (row, column)	Box
r1 c1: The stomach churns the food …	Third
r1 c2: Food is chewed in the …	First
r1 c3: The large intestine absorbs water …	Fifth
r2 c1: Food is pushed down the …	Second
r2 c2: The small intestine passes nutrients …	Fourth
r2 c3: The waste leaves the body.	Sixth

Cut and Paste 3 page 31

Piece (row, column)	Box
r1 c1: Biceps and triceps work as …	Muscular
r1 c2: Kidneys filter the blood and …	Excretory
r1 c3: Arteries carry blood away from …	Circulatory
r2 c1: Ligaments hold bones together at …	Skeletal
r2 c2: White blood cells make antibodies.	Immune
r2 c3: Alveoli trade oxygen and carbon …	Respiratory

Reading the sort keys

Read each strip left to right, top row first. On Cut and Paste 2 the boxes are first to sixth, so the box is the step's place in the path of food.

PREVIEW

Class Progress Grid

Every student on one grid: items right by page type.

Class or group _____ Month _____

Student	Basics, words (of 12)	Readings (of 16)	Diagrams (of 46)	Which system (of 10)	Quiz (of 12)	Sorts (of 18)

PREVIEW

How to fill this in

For each column, add up how many items that student has right with no prompt (the tracker rows). One glance across a row shows which skill is easiest and which is next.

Grouping for small-group time

Students low in Readings need the passages read aloud and the main idea boxes done together (pages 7 to 21). Students low in Diagrams need the word bank read aloud and one system labeled together first (page 8). Students near full marks can move to Systems Work Together (page 24).

Body Systems at Home

Dear family, this week we are learning about the systems of the human body: what each one does and how they work together. These questions are for talking, not for a grade. Short answers are fine.

Student _____ Week of _____

Three things to talk about

- Ask your student to name a body system and tell you one organ in it and what that organ does.
- Ask: "Which two systems work together when you run?" The muscular system moves the legs, and the respiratory and circulatory systems bring oxygen to the muscles.
- Try this: put a hand on your chest and breathe in and out slowly. Ask: "What is moving, and which muscle helps?" The ribs and the diaphragm.

My words from home

Something we talked about _____

A system we named _____

What it does _____

Words that may come up

Organ: a body part that does one main job. **Organ system:** organs that work together. **Heart:** the muscle that pumps blood. **Lungs:** the organs that bring in oxygen. **Brain:** the control center of the nervous system.

Note from the teacher

Note from home

PREVIEW

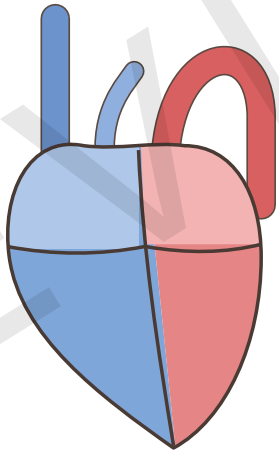
Binder Cover

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 47).

Life Science - The Body

HUMAN BODY SYSTEMS

Readings, Diagrams and Practice



Front view. Blue = low in oxygen. Red = rich in oxygen.
The heart's right side is on your left.

PREVIEW

Cells	Organs	Systems	Teamwork

Teacher _____

Class or student _____