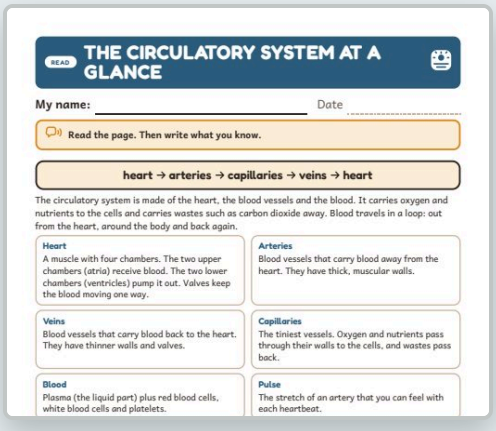
6TH–8TH GRADE · SCIENCE

HEART TO CELLS

CIRCULATORY SYSTEM WORKSHEETS

Label the heart, fill in the path of blood, match clues to terms, read pulse data and draw the graph, sort arteries and veins, and write short answers. Answer keys, a tracker and a family page. Print, or type your answers. PDF.


READ THE CIRCULATORY SYSTEM AT A GLANCE

My name: _____ Date _____

Read the page. Then write what you know.

heart → arteries → capillaries → veins → heart

The circulatory system is made of the heart, the blood vessels and the blood. It carries oxygen and nutrients to the cells and carries wastes such as carbon dioxide away. Blood travels in a loop: out from the heart, around the body and back again.

Heart A muscle with four chambers. The two upper chambers (atria) receive blood. The two lower chambers (ventricles) pump it out. Valves keep the blood moving one way.

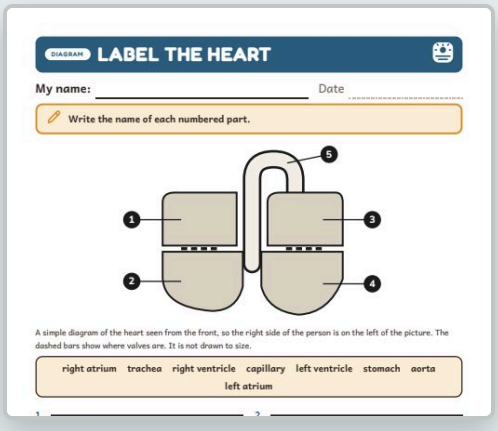
Arteries Blood vessels that carry blood away from the heart. They have thick, muscular walls.

Veins Blood vessels that carry blood back to the heart. They have thinner walls and valves.

Capillaries The tiniest vessels. Oxygen and nutrients pass through their walls to the cells, and wastes pass back.

Blood Plasma (the liquid part) plus red blood cells, white blood cells and platelets.

Pulse The stretch of an artery that you can feel with each heartbeat.


DIAGRAM LABEL THE HEART

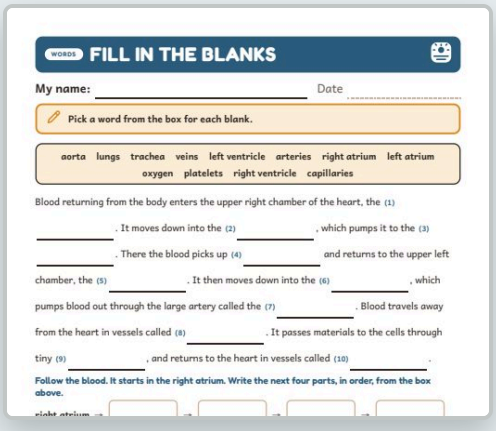
My name: _____ Date _____

Write the name of each numbered part.

A simple diagram of the heart seen from the front, so the right side of the person is on the left of the picture. The dashed bars show where valves are. It is not drawn to size.

right atrium trachea right ventricle capillary left ventricle stomach aorta left atrium

1 _____ 2 _____


WORDS FILL IN THE BLANKS

My name: _____ Date _____

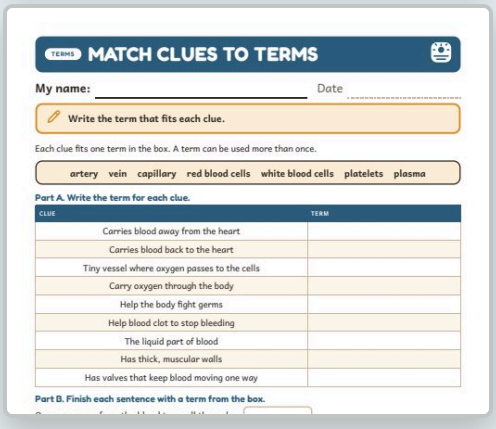
Pick a word from the box for each blank.

aorta lungs trachea veins left ventricle arteries right atrium left atrium oxygen platelets right ventricle capillaries

Blood returning from the body enters the upper right chamber of the heart, the (1) _____. It moves down into the (2) _____, which pumps it to the (3) _____. There the blood picks up (4) _____ and returns to the upper left chamber, the (5) _____. It then moves down into the (6) _____, which pumps blood out through the large artery called the (7) _____. Blood travels away from the heart in vessels called (8) _____. It passes materials to the cells through tiny (9) _____, and returns to the heart in vessels called (10) _____.

Follow the blood. It starts in the right atrium. Write the next four parts, in order, from the box above.

right atrium → _____ → _____ → _____ → _____


TERMS MATCH CLUES TO TERMS

My name: _____ Date _____

Write the term that fits each clue.

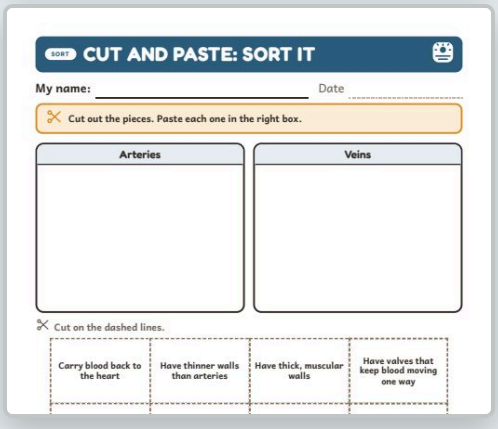
Each clue fits one term in the box. A term can be used more than once.

artery vein capillary red blood cells white blood cells platelets plasma

Part A. Write the term for each clue.

CLUE	TERM
Carries blood away from the heart	
Carries blood back to the heart	
Tiny vessel where oxygen passes to the cells	
Carry oxygen through the body	
Help the body fight germs	
Help blood clot to stop bleeding	
The liquid part of blood	
Has thick, muscular walls	
Has valves that keep blood moving one way	

Part B. Finish each sentence with a term from the box.


SORT CUT AND PASTE: SORT IT

My name: _____ Date _____

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

Arteries	Veins

Cut on the dashed lines.

Carry blood back to the heart | Have thinner walls than arteries | Have thick, muscular walls | Have valves that keep blood moving one way


TRACKER CIRCULATORY SYSTEM TRACKER

STUDENT _____ TEACHER _____ UNIT DATES _____

PAGE	PAGE TYPE	ITEMS	RIGHT	DATE	NOTES
5	Label the Heart	5			
6	Fill In the Blanks	14			
7	Match Clues to Terms	14			
8	Multiple Choice	8			
9	True or False? Fix It	8			
10	Read the Data, Draw the Graph	6			
11	Follow the Blood	6			
12	Cut and Paste: Sort It	8			
13	Short Answers	5			

25 Pages | **11 Page Types** | **77 Items** | **2 Answer Keys**

BRIGHT PATH SPED

START HERE

QUICK START

One complete kit for a circulatory system unit in grades 6-8. Students read a reference page, label the heart, fill in a paragraph, match clues to terms, answer questions, read pulse data and draw a graph, follow the blood and write short answers — on pages with room to work.

THREE STEPS

1. **Teach or review with the reference page**
   Page 4 has the heart, the three kinds of vessels, blood and the pulse, and a place for the student to write what they know. Read it together or hand it out as the first page.

2. **Hand over a page**
   Every student page opens with a name line and one short instruction. Nothing on it is written for you, so the student can start. Short answers have three or more lines and the explanations have five or six, so the page is the whole workspace.

3. **Check it, record it, send it home**
   The answer keys are pages 15 and 16. Record each page on the tracker (page 17), roll a group up on page 18, and send the family page (20). A filled example is on page 21.

WHICH PAGE, WHEN

WHEN…	USE…
Introducing or reviewing the unit	At a Glance, page 4 · Label the Heart, page 5
Checking the vocabulary	Fill In the Blanks, page 6 · Multiple Choice, page 8
Connecting clues to terms	Match Clues to Terms, page 7
Quick check or exit slip	True or False? Fix It, page 9
Reading data and graphing	Read the Data, Draw the Graph, page 10
Hands-on sorting	Cut and Paste, page 12
Writing about science	Follow the Blood, page 11 · Short Answers, page 13 · Explain It, page 14

Everything inside (25 pages)

- **11 student pages** in 11 page types: a reference page, a heart diagram to label, fill in, match clues to terms, multiple choice, true or false, data and graph, flow chart, cut and paste and two short-answer pages
- **77 scored items** on 10 pages
- **8 cut-and-paste pieces** on one sort mat
- **2 answer keys, 1 tracker, 1 class grid**, 1 team note, 1 family page, 1 filled example, 1 phrase bank, 1 binder cover and 6 divider tabs

Print or type

Every page prints clean in black and white. The name line, answer boxes, blanks and writing lines 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. The graph and the cut-and-paste sort are for pencil and scissors.

READ

THE CIRCULATORY SYSTEM AT A GLANCE

My name: _____ Date .....

Read the page. Then write what you know.

heart → arteries → capillaries → veins → heart

The circulatory system is made of the heart, the blood vessels and the blood. It carries oxygen and nutrients to the cells and carries wastes such as carbon dioxide away. Blood travels in a loop: out from the heart, around the body and back again.

Heart
A muscle with four chambers. The two upper chambers (atria) receive blood. The two lower chambers (ventricles) pump it out. Valves keep the blood moving one way.

Arteries
Blood vessels that carry blood away from the heart. They have thick, muscular walls.

Veins
Blood vessels that carry blood back to the heart. They have thinner walls and valves.

Capillaries
The tiniest vessels. Oxygen and nutrients pass through their walls to the cells, and wastes pass back.

Blood
Plasma (the liquid part) plus red blood cells, white blood cells and platelets.

Pulse
The stretch of an artery that you can feel with each heartbeat.

Your turn. Write what you know.

The circulatory system is the group of organs that

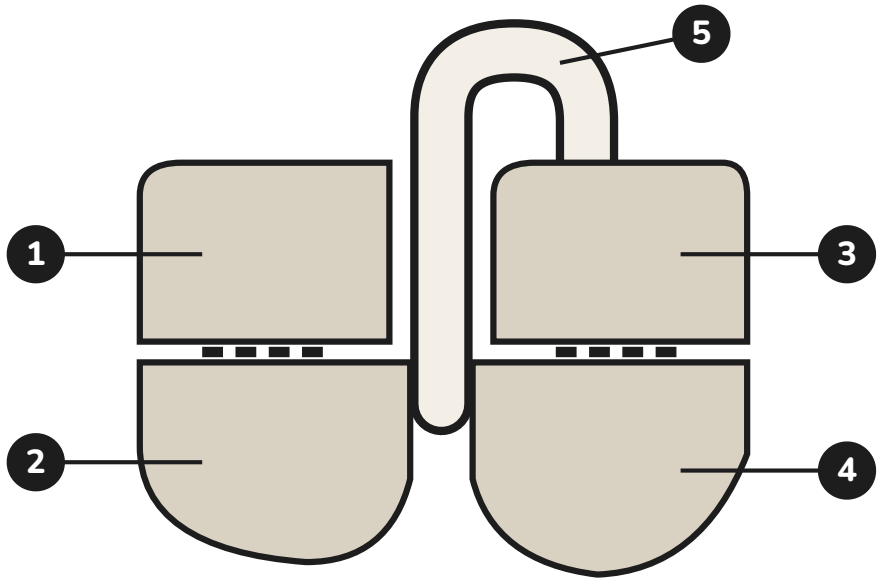
One question I still have about the heart and blood

DIAGRAM

LABEL THE HEART

My name: _____ Date .....

Write the name of each numbered part.



A simple diagram of the heart seen from the front, so the right side of the person is on the left of the picture. The dashed bars show where valves are. It is not drawn to size.

right atrium **trachea** **right ventricle** **capillary** **left ventricle** **stomach** **aorta** **left atrium**

1. _____ 2. _____

3. _____ 4. _____

5. _____

A. Which numbered chamber pumps blood out to the body through the aorta?

_____

B. What do the valves in the heart do?

WORDS

FILL IN THE BLANKS

My name: _____ Date .....

Pick a word from the box for each blank.

aorta	lungs	trachea	veins	left ventricle	arteries	right atrium	left atrium
oxygen	platelets	right ventricle	capillaries				

Blood returning from the body enters the upper right chamber of the heart, the (1) _____. It moves down into the (2) _____, which pumps it to the (3) _____. There the blood picks up (4) _____ and returns to the upper left chamber, the (5) _____. It then moves down into the (6) _____, which pumps blood out through the large artery called the (7) _____. Blood travels away from the heart in vessels called (8) _____. It passes materials to the cells through tiny (9) _____, and returns to the heart in vessels called (10) _____.

Follow the blood. It starts in the right atrium. Write the next four parts, in order, from the box above.

right atrium → [ ] → [ ] → [ ] → [ ]

A. Choose one word from the box that you did not use. Write what it means or what it does.

TERMS MATCH CLUES TO TERMS

My name: _____ Date .....

Write the term that fits each clue.

Each clue fits one term in the box. A term can be used more than once.

artery **vein** **capillary** **red blood cells** **white blood cells** **platelets** **plasma**

Part A. Write the term for each clue.

CLUE	TERM
Carries blood away from the heart	
Carries blood back to the heart	
Tiny vessel where oxygen passes to the cells	
Carry oxygen through the body	
Help the body fight germs	
Help blood clot to stop bleeding	
The liquid part of blood	
Has thick, muscular walls	
Has valves that keep blood moving one way	

Part B. Finish each sentence with a term from the box.

Oxygen passes from the blood to a cell through a _____.

Blood is pumped out of the heart into an _____.

Blood returns to the heart through a _____.

The cells in blood that carry oxygen are the _____.

Part C. Explain the difference between an artery and a vein.

SORT CUT AND PASTE: SORT IT

My name: _____ Date .....

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

Arteries	Veins

Cut on the dashed lines.

Carry blood back to the heart	Have thinner walls than arteries	Have thick, muscular walls	Have valves that keep blood moving one way
Carry blood away from the heart	The vena cava is the largest one	You can feel a pulse in them	The aorta is the largest one

1. Write one sentence that shows how capillaries connect arteries and veins.

TRACKER

CIRCULATORY SYSTEM TRACKER

STUDENT _____ TEACHER _____ UNIT DATES _____

PAGE	PAGE TYPE	ITEMS	RIGHT	DATE	NOTES
5	Label the Heart	5			
6	Fill In the Blanks	14			
7	Match Clues to Terms	14			
8	Multiple Choice	8			
9	True or False? Fix It	8			
10	Read the Data, Draw the Graph	6			
11	Follow the Blood	6			
12	Cut and Paste: Sort It	8			
13	Short Answers	5			
14	Explain It	3			

How to fill this in

Write how many items the student got right and the date. A written answer counts as one item when it makes every point in the key (pages 15 and 16). A blank means not tried yet, never wrong. There are 77 items on the 10 pages above; the reference page (4) is not scored. Filled example: page 21.

STANDARD OR UNIT GOAL (YOUR OWN WORDING)

EXAMPLE JORDAN'S TRACKER

Jordan T. is invented; nothing on this page describes a real student. The blank tracker is on page 17.

STUDENT	TEACHER	UNIT DATES
Jordan T. (an invented student)	**Ms. Reyes (invented)**	**October**

PAGE	PAGE TYPE	ITEMS	RIGHT	DATE	NOTES
5	Label the Heart	5	4	10/12	Mixed up the two ventricles
6	Fill In the Blanks	14	12	10/13	Used a spare word twice
7	Match Clues to Terms	14	14	10/14	–
8	Multiple Choice	8	7	10/15	Missed number 7
9	True or False? Fix It	8	8	10/16	–
10	Read the Data, Draw the Graph	6	–	–	–
11	Follow the Blood	6	–	–	–
12	Cut and Paste: Sort It	8	7	10/19	One piece in the wrong box
13	Short Answers	5	–	–	–
14	Explain It	3	–	–	–

How to read it

Jordan T. has done **6 of 10** scored pages and got **52 of 57** items right. **2** pages were all right and **5** items were missed across 4 pages. Every number here comes from the table above.

The family note this tracker would produce

"This month Jordan finished 6 pages and got 52 of 57 items right. The next thing to practice is naming the parts of the heart and telling arteries from veins." — every number in it is a row of the table above.

What the table points to

4 pages carry a note and each one is short of full. Pages left blank (4 of them) are not tried yet, never wrong. The two writing pages, Short Answers and Explain It, are among them, so they are the next step.

THANK YOU

BEFORE YOU GO

THANK YOU FOR USING THIS RESOURCE

Built for the teacher whose students each need a different amount of support reading, writing and reasoning about science. If this helped, leaving feedback on TPT helps other teachers find it.

Everything inside, one more time

- **11 student pages** in 11 page types, **77 scored items**, every answer read from the same lists that draw the pages.
- **8 multiple-choice questions**, **8 true-or-false statements**, **8 cut-and-paste pieces** and **2 answer keys**.
- **1 tracker, 1 class grid, 1 team note, 1 family page, 1 filled example, 1 phrase bank** (15 starters), **1 binder cover** and divider tabs.

No real student anywhere in this file

The filled example on page 21 names "Jordan T.," an invented student used only to show how the tracker fills in. The experiment on page 10 is invented class data. No table, note or score anywhere in this resource describes a real child, and nothing here is a clinical judgment, an eligibility timeline, or a medical claim of any kind. Once you fill in a real student's name, the tracker, class grid and team note (pages 17, 18 and 19) do carry real information — keep completed pages secure the same way you would any other record.

Something missing or wrong?

Please use the **Ask a Question** tab on the product page first — every question is read, and a fix to the file is a free update you re-download from **My Purchases**.

WHAT'S NEXT FROM THIS STORE

More science for the same classroom, plus vocabulary probes.



Body Systems Worksheets
The six body systems: label, match, sort and explain, grades 6-8.



Photosynthesis Worksheets
Diagram, sort, fill in and short answer for a plant science unit, grades 6-8.



Content Area Vocabulary: Science and Social Studies
Progress-monitoring probes for science and social studies words, grades 4-6.

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