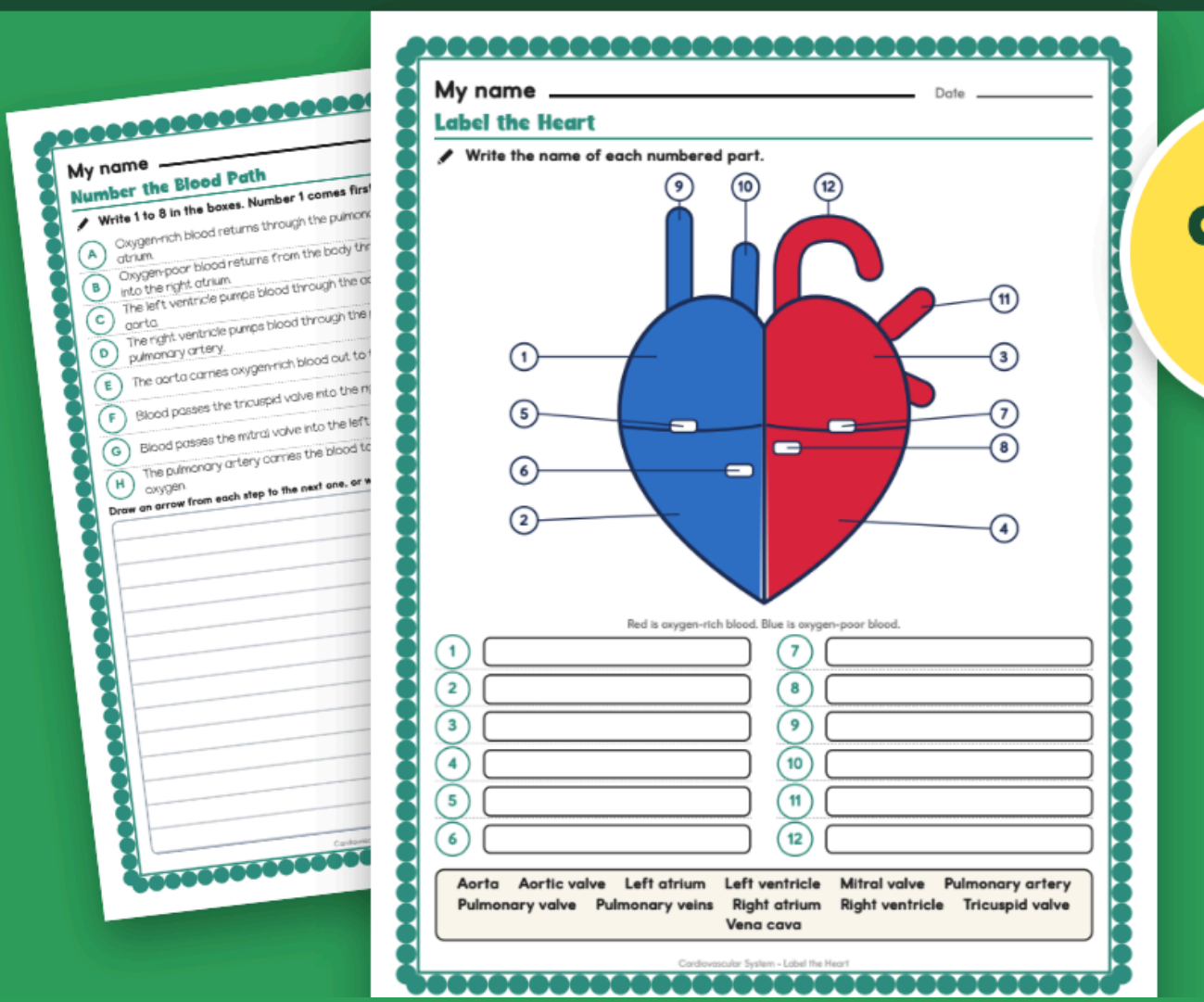
CARDIOVASCULAR SYSTEM WORKSHEETS

HEART + BLOOD + VESSELS



GRADES 6-9

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, 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. Every student page is mostly 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.

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

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 word or number. Click it to type, or print and write in it.
- **The ruled work box.** Lines 0.34 inch apart for writing. One idea to a line.
- **The check box.** TRUE or FALSE, yes or not yet, or how sure: click or mark.
- **The colors.** Red is oxygen-rich blood and blue is oxygen-poor blood. Valves are white.
- **The cut line.** Six pieces in a 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
Heart and blood path	4 pages	Label the drawing, color it, number the path, fill in the path.
Fill in and compare	2 pages	Fill in sentences from a word box; fill in an artery, vein and capillary chart.
Cut and paste sorts	3 sorts, 18 pieces	Parts by job, red or blue, true or false.
Read and check	3 pages	True or false, a passage with questions, a story with questions.
Quiz and record	4 pages	Quiz, exit tickets, a short answer, a self check.

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 23 to 28.

Checked by computer

The heart drawing, the blood path and the sort pieces were each built from one table in the file. The answer keys were written from the same tables, and the asserts stop a page from disagreeing with its key.

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 three lines. If a student needs more room, hand over one page a day, or let students write on scrap paper and copy the answer into the box.

PREVIEW

Divider Tabs

Print at 100 percent on card stock. Print, cut, and laminate the six tabs, then tape each one to a divider. The tab names match the binder cover.

Start Here pages 3 to 4	**Heart and Blood Path** pages 7 to 10	**Charts and Sorts** pages 11 to 15
Reading and Checks pages 16 to 22	**Answer Keys** pages 23 to 28	**Records and Home** pages 29 to 36

PREVIEW

Put the tabs together

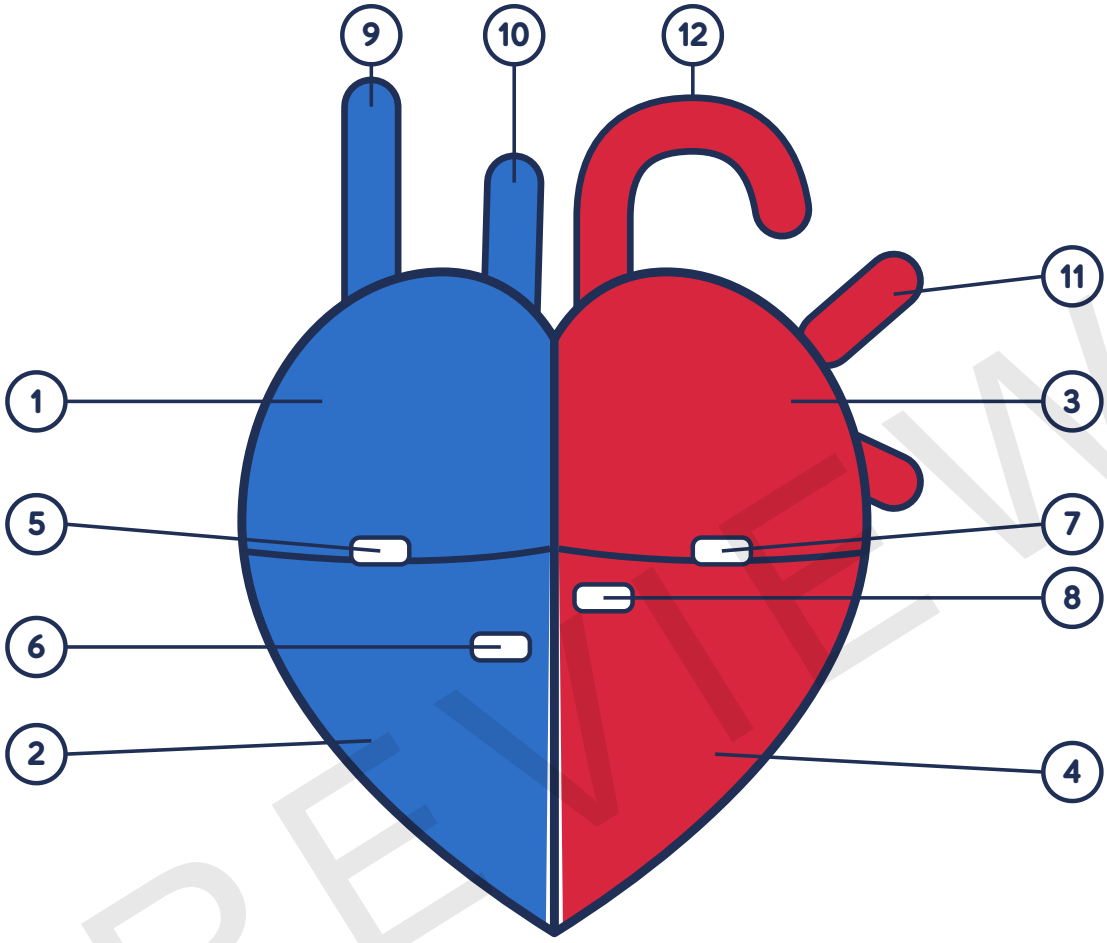
- Cut along the dashed lines. Each tab is 2.4 by 3.2 inches.
- Laminate the tabs, or cover each with clear tape so it lasts all year.
- Tape each tab to the top of a divider, in the order of the binder cover.
- Slide the dividers into the binder in order, and keep the blank tracker and class grid in the back.

Preview - Bright Path Sped

My name _____ Date _____

Label the Heart

Write the name of each numbered part.



Red is oxygen-rich blood. Blue is oxygen-poor blood.

1		7	
2		8	
3		9	
4		10	
5		11	
6		12	

Aorta Aortic valve Left atrium Left ventricle Mitral valve Pulmonary artery
Pulmonary valve Pulmonary veins Right atrium Right ventricle Tricuspid valve
Vena cava

PREVIEW

Preview - Bright Path Sped

My name _____ Date _____

Number the Blood Path

Write 1 to 8 in the boxes. Number 1 comes first.

A	Oxygen-rich blood returns through the pulmonary veins into the left atrium.	Order
B	Oxygen-poor blood returns from the body through the vena cava into the right atrium.	Order
C	The left ventricle pumps blood through the aortic valve into the aorta.	Order
D	The right ventricle pumps blood through the pulmonary valve into the pulmonary artery.	Order
E	The aorta carries oxygen-rich blood out to the body.	Order
F	Blood passes the tricuspid valve into the right ventricle.	Order
G	Blood passes the mitral valve into the left ventricle.	Order
H	The pulmonary artery carries the blood to the lungs, where it picks up oxygen.	Order

Draw an arrow from each step to the next one, or write the path in your own words.

PREVIEW

Preview - Bright Path Sped

My name _____ Date _____

Fill In the Heart

Pick a word from the box for each blank.

artery	atrium	capillaries	left ventricle	muscle	oxygen	valve	veins

1. An _____ receives blood coming into the heart.
2. The _____ pumps blood to the whole body.
3. Blood returns to the heart through the _____.
4. An _____ carries blood away from the heart.
5. The tiny vessels where oxygen moves into cells are the _____.
6. Blood carries _____ from the lungs to the body.
7. A _____ keeps blood flowing in one direction.
8. The heart is a pump made of _____.

PREVIEW

Preview - Bright Path Sped

My name _____ Date _____

Cut and Paste 1: Parts by Job

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

Each piece names one part of the heart. Paste it in the box for the job it does.

Pump blood (ventricles)	Receive blood (atria)	Carry blood away (arteries)

PREVIEW

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

Aorta	Right ventricle	Left atrium
Pulmonary artery	Left ventricle	Right atrium

Which group was easiest to sort? Why?

Preview - Bright Path Sped

My name _____ Date _____

Cut and Paste 3: True or False

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

Each piece is a claim. Paste it under TRUE if it is right and FALSE if it is not.

TRUE	FALSE

PREVIEW

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

The aorta carries oxygen-rich blood to the body.	The pulmonary artery carries oxygen-rich blood from the lungs.	Veins carry blood toward the heart.
Arteries have valves all along their length.	Capillaries are tiny vessels where oxygen and nutrients pass into the cells.	The mitral valve sits between the right atrium and the right ventricle.

Pick one FALSE piece. Rewrite it so it is true.

Preview - Bright Path Sped

My name _____ Date _____

Reading: Two Loops

Read the passage. Answer the questions.

Two Loops, One Heart

Your blood travels in two loops. The pulmonary loop carries blood from the right side of the heart to the lungs and back to the left side. In the lungs, blood gives off carbon dioxide and picks up oxygen.

The systemic loop carries oxygen-rich blood from the left side of the heart out to the body. It returns oxygen-poor blood to the right side. The left ventricle has the thickest wall in the heart, because it pushes blood through the whole body.

1. Which loop carries blood to the lungs?

- ☐ **The systemic loop**
- ☐ **The pulmonary loop**
- ☐ **The left loop**

2. Which side of the heart pumps blood to the whole body?

- ☐ **The right side**
- ☐ **The left side**
- ☐ **Both sides equally**

3. What does blood pick up in the lungs?

4. What does the systemic loop bring back to the right side?

PREVIEW

My name _____ Date _____

Exit Tickets

Answer. Then tell how sure you are.

Exit ticket 1 Which color shows oxygen-rich blood on the heart drawing?

Answer

How sure am I? ☐ **sure** ☐ **kind of sure** ☐ **not sure**

Exit ticket 2 Which chamber receives blood from the lungs?

Answer

How sure am I? ☐ **sure** ☐ **kind of sure** ☐ **not sure**

Exit ticket 3 Do arteries have valves all along their length?

Answer

How sure am I? ☐ **sure** ☐ **kind of sure** ☐ **not sure**

PREVIEW

My name _____ Date _____

Check My Own Work

Check your own work. Mark yes or not yet.

1	I can name the four chambers of the heart.	☐ yes	☐ not yet
2	I can put the blood path in order from the vena cava to the aorta.	☐ yes	☐ not yet
3	I can say which side of the heart carries oxygen-rich blood.	☐ yes	☐ not yet
4	I can compare an artery, a vein and a capillary.	☐ yes	☐ not yet
5	I can tell the pulmonary loop from the systemic loop.	☐ yes	☐ not yet
6	I can explain why veins have valves.	☐ yes	☐ not yet
7	I can name the valve between each atrium and ventricle.	☐ yes	☐ not yet
8	I can use the words atrium, ventricle and valve correctly.	☐ yes	☐ not yet

The part of this unit I can do now is...

The part I still need help with is...

PREVIEW

Answer Key: The Heart and the Blood Path

Pages 7 to 9. The drawing numbers run 1 to 12 in the order of the parts list. Red and blue on the drawing: red is oxygen-rich, blue is oxygen-poor. Page 8 is colored by number: red parts 3, 4, 11, 12, blue parts 1, 2, 9, 10.

Item	Problem	Answer
p7 #1	Part 1 on the drawing	Right atrium
p7 #2	Part 2 on the drawing	Right ventricle
p7 #3	Part 3 on the drawing	Left atrium
p7 #4	Part 4 on the drawing	Left ventricle
p7 #5	Part 5 on the drawing	Tricuspid valve
p7 #6	Part 6 on the drawing	Pulmonary valve
p7 #7	Part 7 on the drawing	Mitral valve
p7 #8	Part 8 on the drawing	Aortic valve
p7 #9	Part 9 on the drawing	Vena cava
p7 #10	Part 10 on the drawing	Pulmonary artery
p7 #11	Part 11 on the drawing	Pulmonary veins

Item	Problem	Answer
p7 #12	Part 12 on the drawing	Aorta
p8 #1	Chamber that first gets oxygen-poor blood	1
p8 #2	Vessel that carries oxygen-rich blood out	12
p9 A	Pulmonary veins to left atrium	5
p9 B	Vena cava to right atrium	1
p9 C	Left ventricle pumps out	7
p9 D	Right ventricle pumps out	3
p9 E	Aorta to the body	8
p9 F	Tricuspid valve	2
p9 G	Mitral valve	6
p9 H	Pulmonary artery to lungs	4

PREVIEW

Answer Key: True or False, Reading and Sorts

Pages 13 to 17. Short answers: accept any answer that says the same thing in the student's own words.

Item	Problem	Answer
p16 #1	Statement 1	TRUE
p16 #2	Statement 2	TRUE
p16 #3	Statement 3	FALSE
p16 #4	Statement 4	TRUE
p16 #5	Statement 5	FALSE

Item	Problem	Answer
p16 #6	Statement 6	TRUE
p17 #1	Which loop carries blood to the lungs?	b. The pulmonary loop
p17 #2	Which side of the heart pumps blood to the whole body?	b. The left side
p17 #3	What does blood pick up in the lungs?	Oxygen. It also gives off carbon dioxide.
p17 #4	What does the systemic loop bring back to the right side?	Oxygen-poor blood.

Sort answers, cut and paste

- Cut and paste A (page 13). Pump blood (ventricles): Right ventricle, Left ventricle; Receive blood (atria): Left atrium, Right atrium; Carry blood away (arteries): Aorta, Pulmonary artery.
- Cut and paste B (page 14). Red: oxygen-rich: Aorta, Pulmonary veins, Left atrium; Blue: oxygen-poor: Vena cava, Right ventricle, Pulmonary artery.
- Cut and paste C (page 15). TRUE: The aorta carries oxygen-rich blood to the body., Veins carry blood toward the heart., Capillaries are tiny vessels where oxygen and nutrients pass into the cells.; FALSE: The pulmonary artery carries oxygen-rich blood from the lungs., Arteries have valves all along their length., The mitral valve sits between the right atrium and the right ventricle..

Common slips

On the true or false page, the usual slip is a statement that sounds right but reverses the path, such as the pulmonary artery carrying oxygen-rich blood. Ask the student which way the blood travels first.

Reading answers

Accept any short answer that names the right idea from the passage in the student's own words. For the check boxes, a letter with the right words is right even if the wording differs.

PREVIEW

Answer Key: Short Answer

Page 21. These answers are written in the student's own words, so check the idea, not the wording.

Item	Problem	Answer
p21 #1	Trace one drop of blood from the vena cava, through the heart and lungs, and back out to the body. Name at least four parts in order.	Vena cava, right atrium, tricuspid valve, right ventricle, pulmonary valve, pulmonary artery, lungs, pulmonary veins, left atrium, mitral valve, left ventricle, aortic valve, aorta, body. Any four in this order is right.
p21 #2	Explain why the left ventricle has a thicker wall than the right ventricle.	It pumps blood through the whole body, which takes more force than pumping blood to the nearby lungs.
p21 #3	Explain the difference between an artery and a vein in one sentence.	An artery carries blood away from the heart, and a vein carries blood back to the heart.

PREVIEW

What a good answer sounds like

An answer about the left side says oxygen-rich blood goes out to the body. An answer about the right side says oxygen-poor blood goes to the lungs. Both use the words of the unit, and neither needs to match the sample word for word.

A full answer has three parts

The idea from the unit, one name or number from the unit, and a sentence in the student's own words. A short answer that has all three is right, even if it is not the sample.

If the answer is close

Ask the student to say the blood path out loud, one step at a time, and point at the part each step names. The most common slip is mixing up the two sides of the heart, or the artery and the vein.

Class Progress Grid

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

Class or group _____ Month _____

Student	Heart (of 14)	Blood path (of 14)	Fill and chart (of 20)	Sorts (of 18)	True, false, reading (of 10)	Scenario (of 4)	Quiz and exit (of 9)

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 part of the unit is easiest and which is next.

Grouping for small-group time

Students low on the heart drawing start with the drawing (page 7) and the color page (page 8). Students low on the blood path start with the path chain (page 10). Students near full marks can move to the scenario (page 18) and the short answer page.

The Heart and Blood Vessels at Home

Dear family, this week we are learning how the heart moves blood through two loops, one to the lungs and one to the body. 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 the four chambers of the heart. The drawing on page 7 helps.
- Ask which color means oxygen-rich blood, and which vessel carries it out to the body.
- Ask how the blood gets from the body back to the heart. The path on page 9 helps.

My words from home

A part of the heart I can name _____

A vessel and what it carries _____

A question I still have _____

Words that may come up

Atrium: a heart chamber that receives blood. **Ventricle:** a heart chamber that pumps blood out. **Valve:** a flap that keeps blood moving in one direction. **Artery:** a vessel that carries blood away from the heart. **Vein:** a vessel that carries blood back to the heart. **Capillary:** a tiny vessel where oxygen passes into cells.

Note from the teacher

Note from home

PREVIEW

Starters and Notes

17 starters in 6 groups. Each one is a frame with a blank: the number comes off the tracker or the page itself, never from memory.

Student sentence starters

The part of the heart that receives blood is the ____, and it is on the ____ side.

A vessel that carries blood away from the heart is an ____.

The valve between the ____ and the ____ keeps blood moving forward.

Oxygen-rich blood is shown in ____, and oxygen-poor blood is shown in ____.

Feedback to a student: the heart and the path

You have the chamber right. Next, say which side it is on.

Check the order. Which part comes right before the lungs?

Feedback to a student: vessels and sorts

Look at the wall first. Is it thick, thin, or one cell thick?

Read the piece out loud. Does it say blood goes away from the heart or back to it?

Progress note starters

Named ___ of 12 parts on the heart drawing without a prompt, on ___ (date).

Put ___ of 8 steps of the blood path in order; used a model / a verbal prompt / no prompt.

Filled in ___ of 12 boxes on the artery, vein and capillary chart on ___ (date).

Family note starters

This week we learned the four chambers and the two loops of blood flow.

At home, ask: which vessel brings blood back to the heart?

The home page for this week is in the folder; please send it back on ___.

Questions to ask while a student works

Which chamber is this part of? Which side of the heart is it on?

Does this blood go to the lungs, or to the body? Which vessel carries it?

Which vessel has the thickest wall? What does that wall need to do?

PREVIEW