

Heart & Blood Explorer!  Mission Sheet

Name: _____ Date: _____ Class: _____

 SECRET WORD BANK (USE THESE TO FILL IN THE BLANKS!)

right ventricle

pulmonary arteries

capillaries

oxygen

pulmonary veins

left atrium

left ventricle

aorta

carbon dioxide (CO₂)

vena cavae

body tissues

deoxygenated

1 THE JOURNEY OF A RED BLOOD CELL Follow the path of a red blood cell around the body and complete the missing words!

- Starting the journey: Blue, oxygen-poor (_____) blood leaves the _____ on the right side of the heart.
- Heading to the lungs: The blood gets pumped through a valve into the _____ that lead directly into the right and left lungs.
- Gas Exchange Station: Inside the lungs, blood flows through tiny _____ where it drops off waste gas called _____ and picks up fresh _____.
- Back to the heart: The bright red, oxygen-rich blood leaves the lungs through the _____ and enters the heart's _____.
- Super Pump! The blood moves into the powerful _____, which squeezes hard to launch blood out into the giant _____ artery.
- Delivery Time: Red blood cells zoom through arteries to deliver oxygen to all your organs and _____.
- Return Trip: After dropping off oxygen, the blood returns back to the right side of the heart through large veins called the _____.

2 THE TWO HEART CIRCUITS Name the two special loops that make up our double circulation system!

- The short loop that takes blood to the lungs to get oxygen is called the _____ circuit.
- The big loop that carries oxygenated blood to the rest of the whole body is called the _____ circuit.

Did You Know? Your heart beats about 100,000 times every day, pumping enough blood to fill a whole swimming pool in a year! 

3 CIRCULATION FLOWCHART CHALLENGE

Fill in the blanks to complete the cycle of how blood moves through your body!

- 1 Right Ventricle pumps deoxygenated blood into the _____.
- 2 In the Lungs, blood picks up fresh _____ and gets rid of CO₂.
- 3 Oxygen-rich blood returns through Pulmonary Veins into the _____.
- 4 Blood enters the Left Ventricle and is pumped into the mighty _____.
- 5 Blood travels to Body Tissues where it drops off oxygen and becomes _____.
- 6 Deoxygenated blood travels back to the Right Atrium through the _____.

4 BLOOD VESSEL MATCHING GAME

Match each blood vessel on the left with its correct job on the right!

BLOOD VESSEL	YOUR ANSWER	WHAT IT DOES
1. Pulmonary Arteries	_____	A. Main giant veins bringing blue blood back to the right atrium.
2. Pulmonary Veins	_____	B. Microscopic vessels where oxygen and nutrients switch places.
3. Aorta	_____	C. Takes oxygen-poor blood away from heart to the lungs.
4. Vena Cavae	_____	D. Super-artery that shoots fresh oxygenated blood to the body!
5. Capillaries	_____	E. Brings fresh, red oxygenated blood from lungs back to heart.

TEACHER / PARENT ANSWER KEY

QUICK CHECK

Part 1: 1. deoxygenated, right ventricle | 2. pulmonary arteries | 3. capillaries, carbon dioxide (CO₂), oxygen | 4. pulmonary veins, left atrium | 5. left ventricle, aorta | 6. body tissues | 7. vena cavae

Part 2: 8. Pulmonary | 9. Systemic

Part 3: 1. pulmonary arteries | 2. oxygen | 3. left atrium | 4. aorta | 5. deoxygenated | 6. vena cavae

Part 4: 1-C | 2-E | 3-D | 4-A | 5-B

