

# ANSWER KEY

+39 points

25

Name MS. GRAHAM ☺  
Period \_\_\_\_\_

## Circulatory System

+2 1. What is the function of the circulatory system?  
Delivers food & oxygen to body cells. Carries carbon dioxide and other waste products from cells.

+3 2. The heart pumps blood through our body. How many chambers does the human heart have? 4  
The top chambers that receive blood are called Atria.  
The bottom chambers that pump blood out of the heart are called Ventricles.

Fill in the correct chamber of the heart or blood vessel to complete the path of blood through heart, body and lungs.

+5 Superior vena cava and Inferior vena cava → Right atrium → right ventricle → Pulmonary artery (vessel) → lungs → pulmonary vein → Left atrium → Left ventricle → Aorta (vessel) → body → BACK TO START

3. Identify the three types of blood vessels and complete the chart below:

+12

Name of Blood Vessel	Direction of Blood Flow (to/from heart)	Thickness of Walls	Presence of valves (Yes or No)
<u>Arteries</u>	<u>AWAY</u>		<u>NO</u>
<u>Veins</u>	<u>To</u>	<u>8-.2 micrometer</u>	<u>Yes</u>
<u>Capillaries</u>	<u>To/from</u>		<u>NO</u>

+1 4. In which chamber of the heart is the pacemaker, the SA node, located?  
Right atrium

Number each of the events to put them in the correct order:

+2 ~~1~~ 2 The AV node receives the signal      3 The atria contract  
-5 for each 1 The SA node sends out the signal      4 The ventricles contract

SA- sinoatrial node

AV- Atrioventricular node

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5. Relate pulse and blood pressure to contraction of the heart.

An average pulse is between 60 - 100. What does this number mean?

Pulse = beats/minute. Low number means efficient heart function.

A typical blood pressure is 120/80. What is the top number called? Systolic

What does this number represent? Pressure of ventricles Contracting.

+5

What is the bottom number called? Diastolic What does this number represent?

Pressure during relaxation or ventricles re filling

6. What are functions of the 4 main components of blood?

- Red blood cells gas exchange
- White blood cells fighting infection
- Platelets Clotting
- Plasma carries everything/regulates bp

+4

7. Choose one of these conditions and complete the questions.

Some common diseases or conditions of this system are:

- Atherosclerosis
- High Blood Pressure
- Heart Attack
- Stroke

Name of disease: \_\_\_\_\_

- What are the causes? \_\_\_\_\_
- What are the symptoms? \_\_\_\_\_
- What effects are seen on the circulatory system? \_\_\_\_\_
- How is the condition treated? \_\_\_\_\_

+5

you do this independently ↗