

Circulatory System Worksheet Questions and Answers PDF

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Part 1: Building a Foundation

What is the primary function of the circulatory system?
Hint: Think about the main role of the circulatory system in the body.
 A) Digestion of food B) Transportation of nutrients and gases ✓ C) Production of hormones D) Storage of energy
The primary function of the circulatory system is to transport nutrients and gases throughout the body. Which of the following are components of the cardiovascular system?
Hint: Consider the main parts that make up the cardiovascular system.
 A) Heart ✓ B) Lungs C) Blood vessels ✓ D) Lymph nodes ✓
The components of the cardiovascular system include the heart, blood vessels, and lymph nodes.

Hint: Think about how red blood cells contribute to oxygen transport.

Describe the role of red blood cells in the circulatory system.



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Red blood cells are responsible for transporting oxygen from the lungs to the body's tissues and returning carbon dioxide to the lungs.
List the three main types of blood vessels and briefly describe their functions.
Hint: Consider the roles of arteries, veins, and capillaries.
1. What are arteries?
Arteries carry oxygen-rich blood away from the heart.
2. What are veins?
Veins carry oxygen-poor blood back to the heart.
3. What are capillaries?
Capillaries facilitate the exchange of nutrients and gases between blood and tissues.
The three main types of blood vessels are arteries (carry blood away from the heart), veins (carry blood to the heart), and capillaries (facilitate exchange of substances).
Part 2: Understanding and Interpretation

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Which part of the heart is responsible for pumping oxygen-poor blood to the lungs?	
Hint: Think about the flow of blood through the heart.	
 A) Left atrium B) Right atrium C) Left ventricle D) Right ventricle ✓ 	
The right ventricle is responsible for pumping oxygen-poor blood to the lungs.	
Which of the following statements about the lymphatic system are true?	
Hint: Consider the functions of the lymphatic system.	
 A) It helps in the absorption of fats from the digestive tract. ✓ B) It circulates oxygen-rich blood. C) It returns interstitial fluid to the bloodstream. ✓ D) It aids in immune function. ✓ 	
The lymphatic system helps in the absorption of fats, returns interstitial fluid to the bloodstream, and aids in immune function.	
Explain how capillaries facilitate the exchange of nutrients and gases between blood and tissues.	
Hint: Think about the structure and function of capillaries.	
Capillaries have thin walls that allow for the diffusion of oxygen, carbon dioxide, nutrients, and waste products between blood and surrounding tissues.	
Part 3: Application and Analysis	

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affected?
Hint: Consider the location and function of coronary arteries.
A) BrainB) Heart ✓C) LungsD) Liver
The heart is directly affected by a blockage in the coronary arteries.
In which scenarios would the circulatory system need to increase blood flow?
Hint: Think about activities that require more oxygen and nutrients.
 A) During exercise ✓ B) While sleeping C) During digestion ✓ D) In response to injury ✓
The circulatory system needs to increase blood flow during exercise, digestion, and in response to injury
Describe how the body responds to a decrease in blood pressure and the role of the circulatory system in this process.
Hint: Consider the mechanisms the body uses to maintain blood pressure.
The body responds to a decrease in blood pressure by increasing heart rate, constrict blood vessels, and releasing hormones to retain fluid.

If a person has a blockage in their coronary arteries, which part of the circulatory system is directly

Hint: Think about how blood flows through the heart and lungs.

circulations?

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Which of the following best explains the relationship between the pulmonary and systemic



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\bigcirc	A) They are two separate systems with no interaction.
\bigcirc	B) Pulmonary circulation oxygenates blood, while systemic circulation delivers it to the body. ✓
\bigcirc	C) Both systems only circulate oxygen-poor blood.
\bigcirc	D) Systemic circulation occurs only in the lower body.
	Pulmonary circulation oxygenates blood, while systemic circulation delivers it to the body.
Αı	nalyze the following statements and identify which are correct regarding blood pressure.
Hi	nt: Consider how blood pressure varies in different parts of the circulatory system.
	 A) Blood pressure is higher in arteries than in veins. ✓ B) Blood pressure remains constant throughout the body. C) Blood pressure is influenced by heart rate and blood volume. ✓ D) Blood pressure is unaffected by physical activity.
	Blood pressure is higher in arteries than in veins, influenced by heart rate and blood volume.
	art 4: Evaluation and Creation
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w	hich lifestyle change is most likely to improve circulatory system health? nt: Think about habits that affect heart health.
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W Hii	hich lifestyle change is most likely to improve circulatory system health? nt: Think about habits that affect heart health. A) Increasing salt intake B) Regular physical exercise ✓
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W Hii	hich lifestyle change is most likely to improve circulatory system health? **nt: Think about habits that affect heart health.** A) Increasing salt intake **B) Regular physical exercise ✓ C) Smoking D) Reducing water consumption
W Hi OOOO I	hich lifestyle change is most likely to improve circulatory system health? Int: Think about habits that affect heart health. A) Increasing salt intake B) Regular physical exercise ✓ C) Smoking D) Reducing water consumption Regular physical exercise is most likely to improve circulatory system health.
W Hi OOO I	hich lifestyle change is most likely to improve circulatory system health? nt: Think about habits that affect heart health. A) Increasing salt intake B) Regular physical exercise ✓ C) Smoking D) Reducing water consumption Regular physical exercise is most likely to improve circulatory system health. raluate the following interventions and identify which are effective in managing high blood essure.
W Hii	hich lifestyle change is most likely to improve circulatory system health? Int: Think about habits that affect heart health. A) Increasing salt intake B) Regular physical exercise ✓ C) Smoking D) Reducing water consumption Regular physical exercise is most likely to improve circulatory system health. Figure 1. Figure 1. Figure 1. Figure 2. Figure 2. Figure 2. Figure 2. Figure 3. Figure
W Hi OOO I	hich lifestyle change is most likely to improve circulatory system health? Int: Think about habits that affect heart health. A) Increasing salt intake B) Regular physical exercise ✓ C) Smoking D) Reducing water consumption Regular physical exercise is most likely to improve circulatory system health. Faluate the following interventions and identify which are effective in managing high blood essure. Int: Consider both medical and lifestyle interventions. A) Medication ✓

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	Effective interventions for managing high blood pressure include medication, stress management, and a balanced diet.
	opose a public health campaign aimed at educating teenagers about maintaining a healthy culatory system. Include key messages and strategies.
Hi	nt: Think about effective ways to reach teenagers.
	A public health campaign could focus on promoting regular exercise, healthy eating, and

avoiding smoking to maintain a healthy circulatory system.