

Circulatory System Worksheet

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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
- O C) Production of hormones
- D) Storage of energy

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

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

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

List the three main types of blood vessels and briefly describe their functions.

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Hint: Consider the roles of arteries, veins, and capillaries.

1. What are arteries?

2. What are veins?

3. What are capillaries?

Part 2: Understanding and Interpretation

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

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.

Explain how capillaries facilitate the exchange of nutrients and gases between blood and tissues.

Hint: Think about the structure and function of capillaries.



Part 3: Application and Analysis

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

Hint: Consider the location and function of coronary arteries.

🔾 A) Brain

O B) Heart

○ C) Lungs

O D) Liver

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

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.

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

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

- \bigcirc A) They are two separate systems with no interaction.
- O B) Pulmonary circulation oxygenates blood, while systemic circulation delivers it to the body.
- C) Both systems only circulate oxygen-poor blood.
- O D) Systemic circulation occurs only in the lower body.

Analyze the following statements and identify which are correct regarding blood pressure.

Hint: 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.

Part 4: Evaluation and Creation

Which lifestyle change is most likely to improve circulatory system health?

Hint: Think about habits that affect heart health.

- A) Increasing salt intake
- B) Regular physical exercise
- C) Smoking
- D) Reducing water consumption

Evaluate the following interventions and identify which are effective in managing high blood pressure.

Hint: Consider both medical and lifestyle interventions.

A) Medication

- B) Stress management
- C) High caffeine intake
- D) Balanced diet

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Propose a public health campaign aimed at educating teenagers about maintaining a healthy circulatory system. Include key messages and strategies.

Hint: Think about effective ways to reach teenagers.

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