



Student Exploration: Circulatory System

Name:

Date:

Directions: Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

Vocabulary: artery, atrium, blood vessel, capillary, circulatory system, heart, heart valves, platelet, pulmonary artery, pulmonary vein, red blood cell, urea, ventricle, vein, white blood cell

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

1. Why do you need blood?

You need blood because it brings oxygen and nutrients to different parts of your body so they can work.

2. What organ pushes blood through your body?

Your heart pushes blood through your body.

Gizmo Warm-up

The Circulatory System Gizmo shows the **heart** and **blood vessels** that make up the **circulatory system**. Look at the heart.



1. How many chambers does the heart have?

4

2. Turn on **Show labels**. What are the names of the chambers?

Right atrium

Left atrium

Right ventricle

Left ventricle

3. Do you see tiny "doors" that open and close as blood is pumped through the heart?

Yes?

These are **heart valves**. Heart valves control the flow of blood through the heart.

4. Click **Heartbeat sound** and listen for the two parts of the heartbeat, nicknamed "lub" and "dub." Observe the heart. (Note: The recording is not in sync with the heart animation.)

What do you think causes heartbeat sounds?

I think the blood being pumped through the heart makes that sound.

In fact, the "lub" sound is caused by valves from the **atria** to the **ventricles** closing, and the "dub" sound is caused by the valves from the ventricles to the blood vessels closing.

5. Challenge: Why do you think the left atrium and left ventricle are shown on the *right* side of the diagram?

Answers For Circulatory Gizmo Worksheet

L Cohen

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Answers For Circulatory Gizmo Worksheet:

The book delves into Answers For Circulatory Gizmo Worksheet. Answers For Circulatory Gizmo Worksheet is an essential topic that needs to be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Answers For Circulatory Gizmo Worksheet, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Answers For Circulatory Gizmo Worksheet
 - Chapter 2: Essential Elements of Answers For Circulatory Gizmo Worksheet
 - Chapter 3: Answers For Circulatory Gizmo Worksheet in Everyday Life
 - Chapter 4: Answers For Circulatory Gizmo Worksheet in Specific Contexts
 - Chapter 5: Conclusion
 2. In chapter 1, this book will provide an overview of Answers For Circulatory Gizmo Worksheet. This chapter will explore what Answers For Circulatory Gizmo Worksheet is, why Answers For Circulatory Gizmo Worksheet is vital, and how to effectively learn about Answers For Circulatory Gizmo Worksheet.
 3. In chapter 2, this book will delve into the foundational concepts of Answers For Circulatory Gizmo Worksheet. The second chapter will elucidate the essential principles that must be understood to grasp Answers For Circulatory Gizmo Worksheet in its entirety.
 4. In chapter 3, the author will examine the practical applications of Answers For Circulatory Gizmo Worksheet in daily life. The third chapter will showcase real-world examples of how Answers For Circulatory Gizmo Worksheet can be effectively utilized in everyday scenarios.
 5. In chapter 4, this book will scrutinize the relevance of Answers For Circulatory Gizmo Worksheet in specific contexts. The fourth chapter will explore how Answers For Circulatory Gizmo Worksheet is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, the author will draw a conclusion about Answers For Circulatory Gizmo Worksheet. This chapter will summarize the key points that have been discussed throughout the book.
- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Answers For Circulatory Gizmo Worksheet.

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Answers For Circulatory Gizmo Worksheet Introduction

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