



## 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.

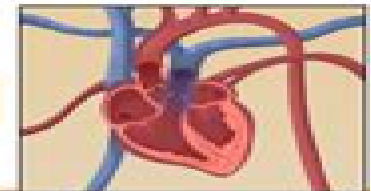
**Vocabulary:** artery, atrium, blood vessel, capillary, circulatory system, heart, heart valves, platelet, pulmonary artery, pulmonary vein, red blood cell, urea, ventricle, vein, white blood cell

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

1. Why do you need blood?
2. What organ 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?
2. Turn on **Show labels**. What are the names of the chambers?

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

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?

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?

# Student Exploration Circulatory System Key Gizmo

**RC Schank**

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.

## **Student Exploration Circulatory System Key Gizmo:**

*The Architects' Journal* ,2002-11      *Business Week* ,1995      *Circulatory System*, The Kay Manolis,2013-08-01 How does blood move around inside the human body Students will learn all about the heart blood cells blood vessels and other important parts of the circulatory system      **Circulatory System** Kristin Petrie,2006-08-15 Through engaging text readers learn about the human body s circulatory system which consists of the heart the blood vessels and the blood that is pumped through them Readers discover that the circulatory system transports oxygen and nutrients throughout the body carries away waste products sends out disease fighters and regulates the body s temperature Topics discussed include the lungs the kidneys and diseases that affect the circulatory system A detailed diagram allows readers to follow a drop of blood through the circulatory system Ways to maintain a healthy circulatory system are also highlighted Full color photos phonetics glossary and index enhance the text      *The Human Circulatory System* Cassie M. Lawton,2020-07-15 The human circulatory system is essential for pumping blood throughout a person s body Without it humans wouldn t be able to live This guide explores the main elements of the circulatory system introduces key parts such as blood vessels and the heart and examines problems with this system Complete with fact boxes and intriguing sidebars accessible language discussion questions and descriptive photographs and diagrams this introduction will appeal to readers of all levels      **The Circulatory System** Conrad J. Storad,2005-01-01 Describes the structure and function of the human circulatory system      *20 Fun Facts About the Circulatory System* Tayler Cole,2018-12-15 The circulatory system doesn t just move blood around the body It moves nutrients oxygen hormones and electrolytes to exactly where they need to go from the brain to the feet Every body system relies on the network of veins arteries and capillaries throughout the body While important the circulatory system is also incredible interesting Readers learn the basics of blood cells and blood vessels in fun surprising and even gross facts on each page Diagrams and full color photographs aid readers understanding and provide a close encounter with parts of the body they may never see      **Circulatory System** Ruth Bjorklund,2009 Discusses the parts that make up the human circulatory system what can go wrong how to treat those illnesses and diseases and how to stay healthy

## Unveiling the Energy of Verbal Art: An Emotional Sojourn through **Student Exploration Circulatory System Key Gizmo**

In a world inundated with monitors and the cacophony of immediate connection, the profound power and emotional resonance of verbal artistry often diminish in to obscurity, eclipsed by the continuous assault of noise and distractions. However, located within the musical pages of **Student Exploration Circulatory System Key Gizmo**, a interesting function of fictional brilliance that pulses with organic feelings, lies an memorable trip waiting to be embarked upon. Written with a virtuoso wordsmith, that exciting opus manuals readers on an emotional odyssey, delicately revealing the latent potential and profound affect stuck within the delicate web of language. Within the heart-wrenching expanse of the evocative analysis, we will embark upon an introspective exploration of the book is central themes, dissect their charming writing type, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

<https://movement.livewellcolorado.org/data/browse/HomePages/ultimate%20guide%20for%20moving%20to%20bali.pdf>

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