



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

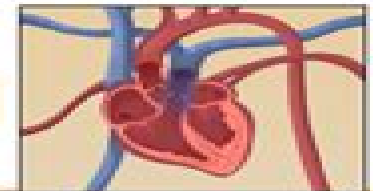
Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

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?

Gizmo Circulatory System Answers

Huangqi Zhang

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.

Gizmo Circulatory System Answers:

Live for Today! Plan for Tomorrow Robert Montague,2016-12-20 The primary theme from the first edition written in 2007 is that we must always live a balanced life A frequent tragedy experienced by many people is working and saving for a lifetime but never fully enjoying the fruits of their labor reaching retirement with substantial financial resources but unable to enjoy retirement due to an unexpected medical condition or death of a spouse The message throughout the pages is how to live every moment to its fullest dont postpone a dream for tomorrow because it may not come Learn about investments the markets and the economy plan and then implement it with the assistance of a professional and get on with the wonders of life Work hard toward success and being your best but not to the extent you are hurting yourself or your loved ones Live for today Plan for tomorrow 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 **101 Questions about Blood and Circulation, with Answers Straight from the Heart** Faith Hickman Brynie,2001-01-01 Presented in a question and answer format a comprehensive guide to the circulatory system discusses blood poisoning heartburn and a wealth of other relevant topics and features tables source notes graphs photographs and black and white line art as well as a glossary and an index **The Circulatory System** Conrad J. Storad,2005-01-01 Describes the structure and function of the human circulatory system **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** Susan Heinrichs Gray,2004 Text and illustrations explain the purpose parts and function of the circulatory sytem **Circulatory System** Simon Rose,2019-08-01 Did you know that the average adult has about 60 000 miles 95 500 kilometers of blood vessels Blood flows through the body in two circuits or pathways that begin and end at the heart Discover more fascinating facts in Circulatory System a title in the Body Systems series Each title in Body Systems guides readers through the fascinating inner workings of the human body The human body contains several complex systems that work closely together to support life and allow the body to function properly Each book explores the characteristics and interactions of these systems their makeup and their importance This is an AV2 media

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The Circulatory System Regina Avraham,1989 Describes the organs of the circulatory system and their function Also discusses heart problems and how they may be avoided *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

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