

Circulatory System GIZMO

Name: _____

Date: 2/28/2021

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

Vocabulary:

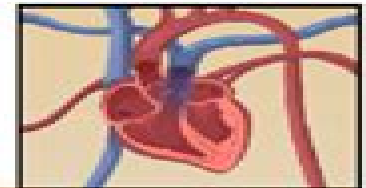
- circulatory system, red blood cell, white blood cell, platelet
- blood vessel, artery, vein, capillary, pulmonary artery, pulmonary vein
- heart, atrium, ventricle, heart valves

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

1. Why do you need blood?
Blood carries oxygen to vital (and non-vital) systems in the body. As we learned in cell respiration, our body needs oxygen to create ATP.
2. What organ pushes blood through your body?
The Heart

Gizmo Warm-up

This 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. Find the tiny "doors" that open and close as blood is pumped through the heart.
How many of these can you find?

4

These are **heart valves**. Heart valves stop blood from flowing backwards in 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?

The pressure/force of the heart pumping all that blood throughout the body.

In fact,

- the "**lub**" sound is caused by valves from the **atria** to the **ventricles** closing.
- the "**dub**" sound is caused by the valves from the **ventricles** to the **blood vessels** closing.

5. The diagram is drawn as if you are face-to-face with the person with this heart. Why are the left atrium and left ventricle shown on the **right** side of the diagram?

When you are facing someone, their left is my right, and my right is their left. The difference is caused by our opposing orientations.

Standard Deviant The Circulatory System Answers Key

Rui Xin Huang



Standard Deviant The Circulatory System Answers Key:

Noninvasive Vascular Diagnosis Ali F. AbuRahma, 2017-10-02 This large format book is the definitive text on vascular surgery written by expert editors and contributors. It is well supported by exceptional illustrative material. The book is invaluable to all those who work in vascular laboratories as well as internists, cardiologists, vascular laboratory directors, and staff general surgeons involved in vascular surgery and the vascular surgery community in general. Noninvasive Vascular Diagnosis comprehensively covers all aspects of noninvasive evaluation of the circulatory system in the extremities. The increasing popularity of noninvasive techniques is not reflected in the number of comprehensive works on the topic, and it is clear from the success of the first edition that the demand for an updated volume is increasing.

Heaving, Stretching and Spicing Modes Rui Xin Huang, 2020-08-20 This book is focused on fundamental aspects of climate variability in the ocean, in particular changes of the wind-driven circulation. The vertical movement of isopycnal isothermal layers, including their stretching and compression, is called heaving and stretching. A major part of climate variability in the ocean is heaving in nature. Heave is primarily associated with the adiabatic motions of isopycnal layers due to change of wind stress. It is rather difficult to separate the contributions from adiabatic and diabatic processes. Isopycnal analysis has been widely used in climate study; however, it is much more accurate to study the isopycnal layers. Here, climate signals are examined in terms of changes of layer depth, layer thickness, layer temperature, salinity, spicity, and others. In addition to the traditional Θ - S diagram, the σ_ρ - π potential density potential spicity diagram can also be used in analyzing water mass property distribution and climate variability. In fact, a radius of signal can be defined rigorously for signals in the σ_ρ - π diagram. The combination of isopycnal analysis and evaluation of radius of signal provides a powerful tool in analyzing climate variability in the world oceans.

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Physical Activity: An Optimizer of the Neurophysiological System? Juan Pedro Fuentes, Rodrigo Ramirez-Campillo, Mauricio Garzon, Maria Ant3nio Castro, 2022-01-24

Nutritional and Metabolic Bases of Cardiovascular Disease Mario Mancini, Jose M. Ordovas, Gabrielle Riccardi, Paolo Rubba, Pasquale Strazzullo, 2011-07-11 Extraordinary advances in the understanding of the links between nutrition, metabolism, and cardiovascular disease have prompted a systematic reappraisal of knowledge in the field. As a result, it is now imperative that clinicians who care for patients with CVD or its key risk factors have a solid understanding of the often complex interrelationships between cardiovascular health and chronic diseases such as diabetes and obesity. Written by a team of international thought leaders in cardiology, endocrinology, diabetology, and nutritional science, this important new book examines and updates the role of obesity, hyperlipidemia, diabetes, hypertension, thrombosis, and aging in atherogenesis. Describes in detail the scientific and clinical evidence of the etiopathogenesis of ischemic heart disease as well as of peripheral and cerebrovascular disease. Focuses on the 6 topics that will be of greatest interest to

readers 1 general nutrition 2 metabolic syndrome and diabetes 3 hyperlipidemia and atherosclerosis 4 hypertension and cerebrovascular disease 5 hemostasis and thrombosis 6 aging Throughout the book in clear and accessible text contributors illuminate the close relationship between dietary habits the metabolic processes of nutrients and their impact on the cardiovascular system always with an eye on how the physician can use this information to implement better cardiovascular prevention and improve patient care Nutritional and Metabolic Bases of Cardiovascular Disease is ideal for those who need to update their knowledge of the links between nutrition metabolism and CVD from trainees clinicians and clinical investigators in cardiovascular medicine to endocrinologists diabetologists and nutritionists [Legal Medicine Open File](#)

,1996 [GO TO Objective NEET 2021 Biology Guide 8th Edition](#) Disha Experts, **In Defense of an Evolutionary Concept of Health** Dr Mahesh Ananth,2012-10-01 One of the most controversial contemporary debates on the concept of health is the clash between the views of naturalists and normativists Naturalists argue that although health can be valued or disvalued the concept of health is itself objective and value free In contrast normativists argue that health is a contextual and value laden concept and that there is no possibility of a value free understanding of health This debate has fueled many of the often very acrimonious disputations arising from the claims of health disease and disability activists and charities and the public policy responses to them In responding to this debate Ananth both surveys the existing literature with special focus on the work of Christopher Boorse and argues that a naturalistic concept of health drawing on evolutionary considerations associated with biological function homeostasis and species design is defensible without jettisoning norms in their entirety

SV. Sound and Vibration ,1996 **Clinical Reasoning for Physician Assistants, E-Book** Robin D. Risling,Noelle Hammerbacher,Daniel McNeill,2023-03-20 Use this all new workbook to review for the PANCE and PANRE examinations with confidence and develop the clinical reasoning skills you ll use in everyday practice Clinical Reasoning for Physician Assistants uniquely prepares you for success on certification and recertification examinations and in your future practice by teaching you to think like an experienced physician assistant and master what you need to know for safe effective practice Custom tailored to physician assistant students and the PANCE and PANRE examination blueprints this innovative resource provides robust preparation through multiple choice questions and answers and real world case studies that prepare you well for your career as a physician assistant Part I introduces you to essential clinical reasoning skills for PANCE PANRE success and safe clinical practice and provides key test taking skills Part II contains 14 body system chapters with multiple choice PANCE PANRE practice questions organized according to the most current NCCPA PANCE content blueprint After each chapter an answer key with complete rationales is provided along with an indication of the corresponding NCCPA task category Part III presents 15 detailed unfolding case studies that take you to the next step in clinical reasoning for safe patient practice with PANCE PANRE style questions throughout the cases for additional practice These patient centered cases integrate demographics cultural aspects ethics and professional practice in decision making An eBook version is

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