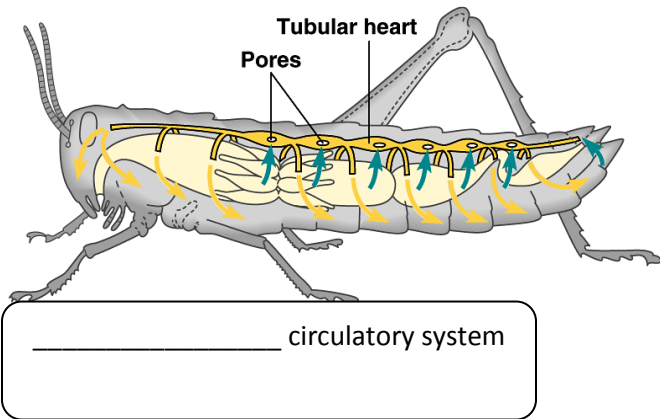


CHAPTER 23 - Circulation
Chapter Reading Guide

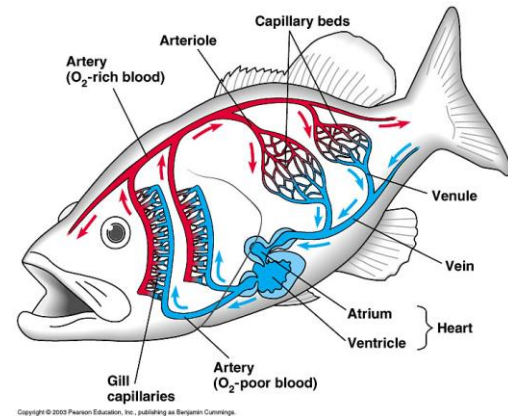
1. Describe the general need for and functions of a circulatory system.

Mechanisms of Internal Transport

2. Compare open and closed circulatory systems and gastrovascular cavities.



_____ circulatory system



3. Compare the cardiovascular systems of a fish and a mammal.

The Mammalian Cardiovascular System

4. Describe the pathway of blood through the mammalian cardiovascular system.

5. Relate the structure of blood vessels to their functions.

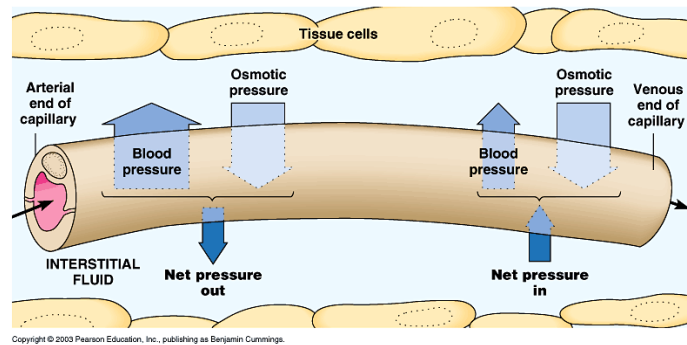
6. a) Distinguish between **diastole** and **systole**. b) Explain what keeps blood moving in the correct direction within the heart and what causes heart "*beats*". c) Explain how heartbeats are controlled.

7. Define a heart attack and heart disease and explain the causes of these serious health problems.

8. Explain how and why blood pressure changes as blood moves away from the heart.

9. Explain how blood pressure is measured. **Note normal and high blood pressure readings.**

10. Explain how blood flow through capillaries is regulated. **How is the structure of a capillary related to its functions?**



Structure and Function of Blood

11. Describe the components of blood and their functions.

12. Describe the structure, function, and production of red blood cells.

13. Describe the five main types of leukocytes and note their functions.

Type of Leukocyte	Function

14. Describe the process of blood clotting.

15. Define leukemia and describe the most common forms of treatment.

