



Dissection 101: Clam

PowerPoint Quiz (student)

Clam Dissection Quiz: Complete the following questions.



1. Which of the following is the ventral side of the clam?
Side: A B C **D** (circle one)
2. Name the location indicated on the shell? **Umbo**
3. Name the structure indicated above. **Adductor muscle**
4. What is the function of this structure?
Muscle relaxes – shell open
Muscle contracts – shell closes
5. Name the structure indicated. **Gills**
6. What is the function of this structure?
Respiration – oxygen/carbon dioxide exchange
7. Name the structure indicated. **Foot**
8. What is a function of this structure?
Used to sort food and move it toward the mouth for digestion
9. Name the structure indicated. **Heart**
10. What type of circulatory system does the clam have?
Open system Closed system (circle one)

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PowerPoint Quiz Continue (student)

11. Describe how the clam's circulatory system compares/contrasts to the human circulatory system.

Clams have an open circulatory system; humans have a closed circulatory system. Both systems move blood throughout the organism providing exchange of nutrients/oxygen for waste products/carbon dioxide, at the cellular level. The open system of the clam is not complete; blood pools around the heart, as a result there is less pressure. The blood of the closed system like humans is confined within the blood vessels and heart, resulting in a high pressured system. The high pressure system allows for a higher level of activity.

12. Name the structure indicated. **Mantle**

13. What is a function of this structure?

Produces the shell and provides protective and lubricated surface for the body structures.

14. What is the function of the green section indicated?

Digestive glands – produce enzymes to break down the food to release nutrients.

15. Name the tube-like structure indicated. **Intestine**

