

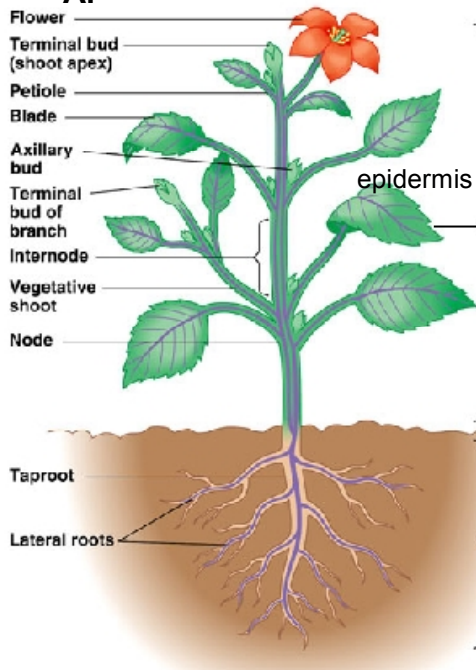
**Introduction:** Is your heart just like the heart of a dog, fish or snake? How is it similar? Different? In this activity you will compare the structure and function of organs in one organism to the structure and function of organs in another organism.

**Procedures:**

1. Begin by drawing lines to connect organs that have similar functions in the pairs below. Label the organ and describe what it does on the line connecting the two organisms.
2. Make at least **three** connections between each. You may need to use your textbook to help you. Start with the pair below. An example has been done for you.

**Part 1**

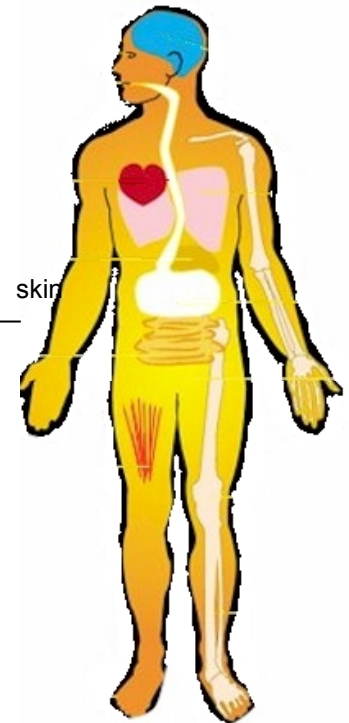
**A.**



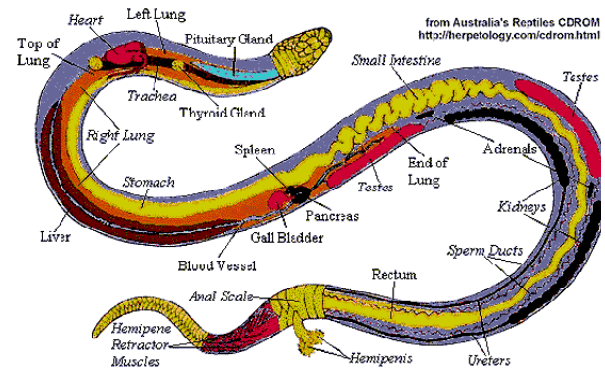
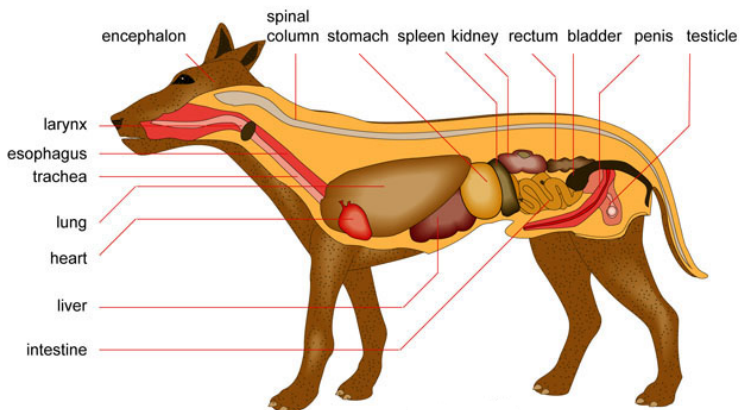
epidermis

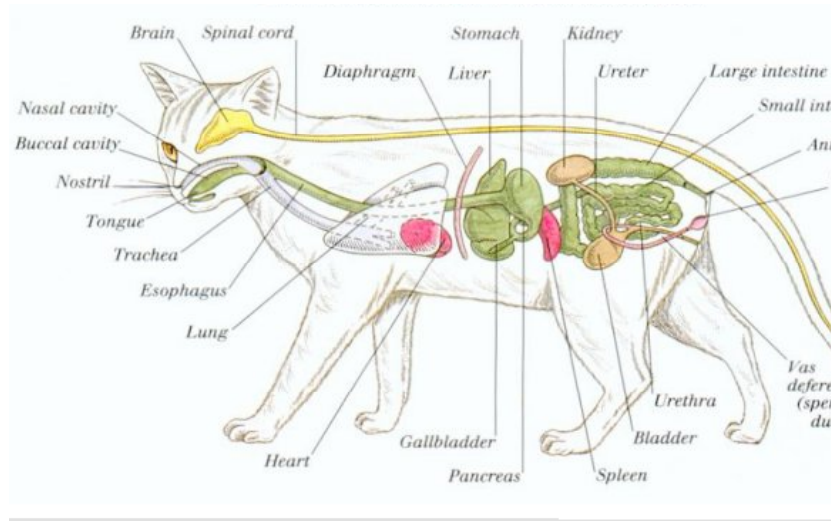
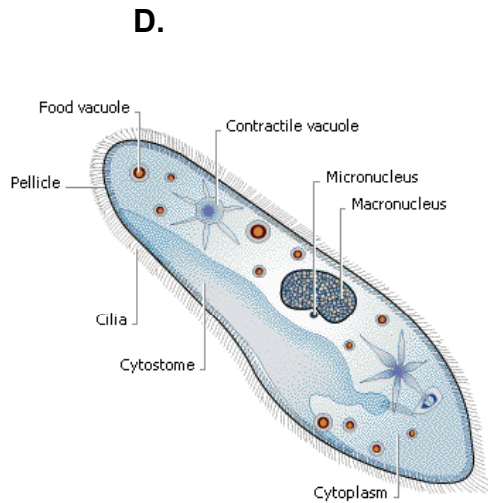
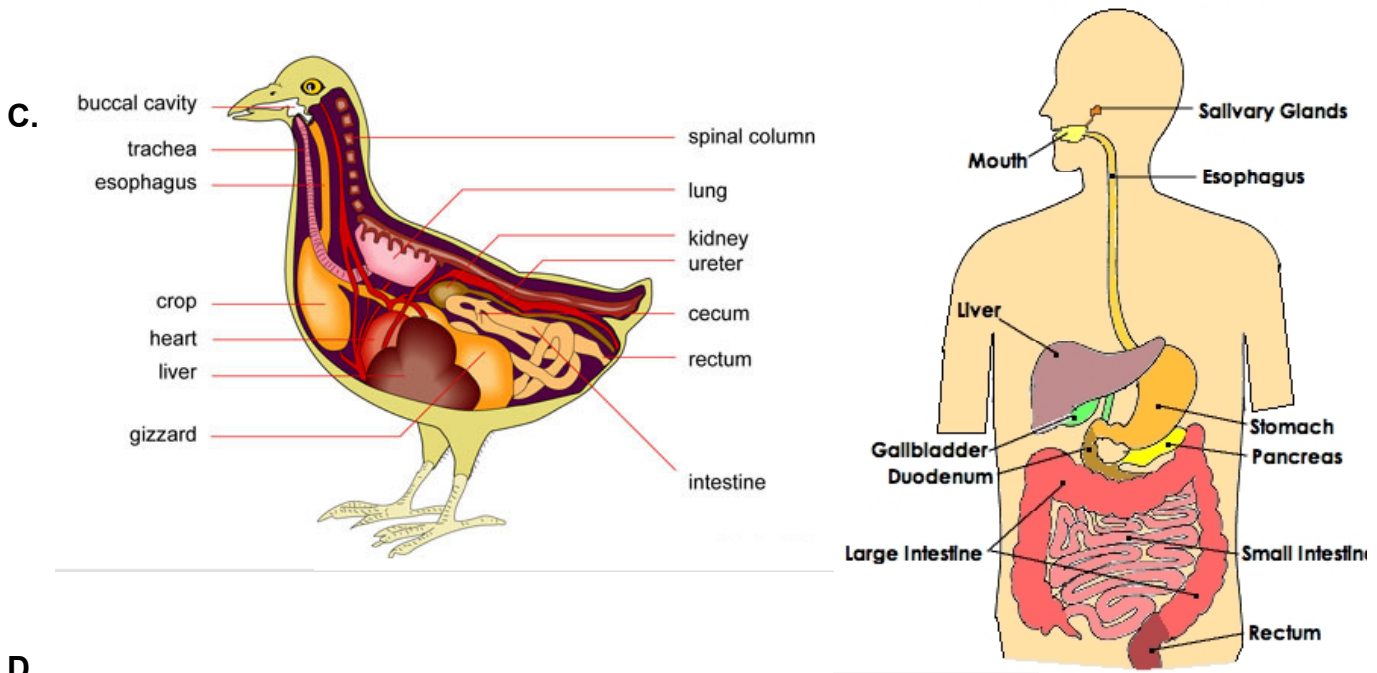
Allows movement of water and wastes

skin



**B.**





Analysis:

1. Do the organs of different species resemble each other?

How are they alike?

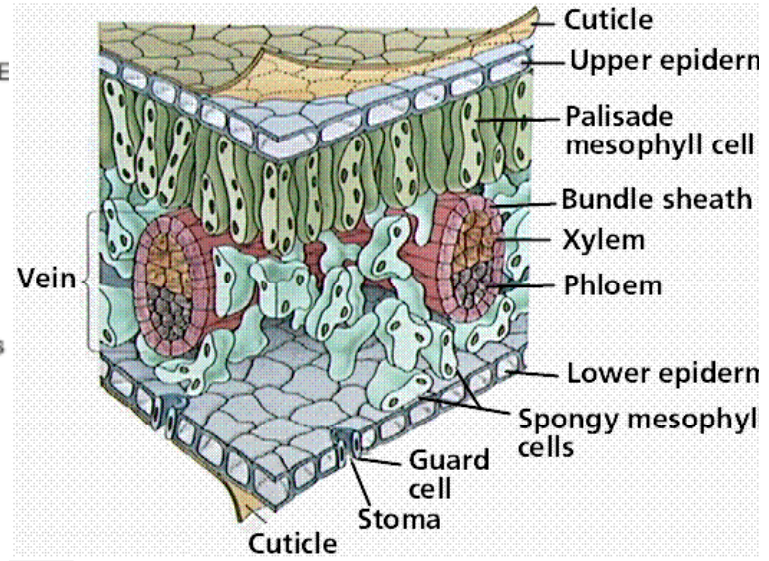
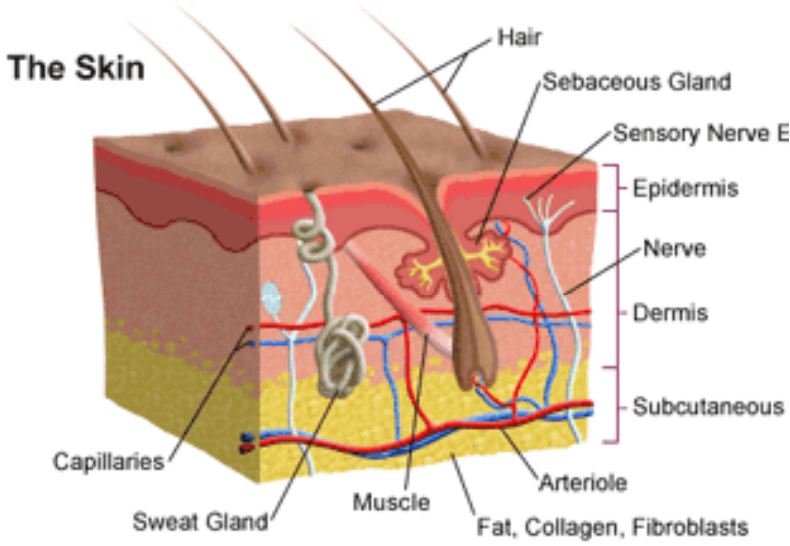
How are they different?

2. What life functions have to be carried out in a living thing for it to survive?

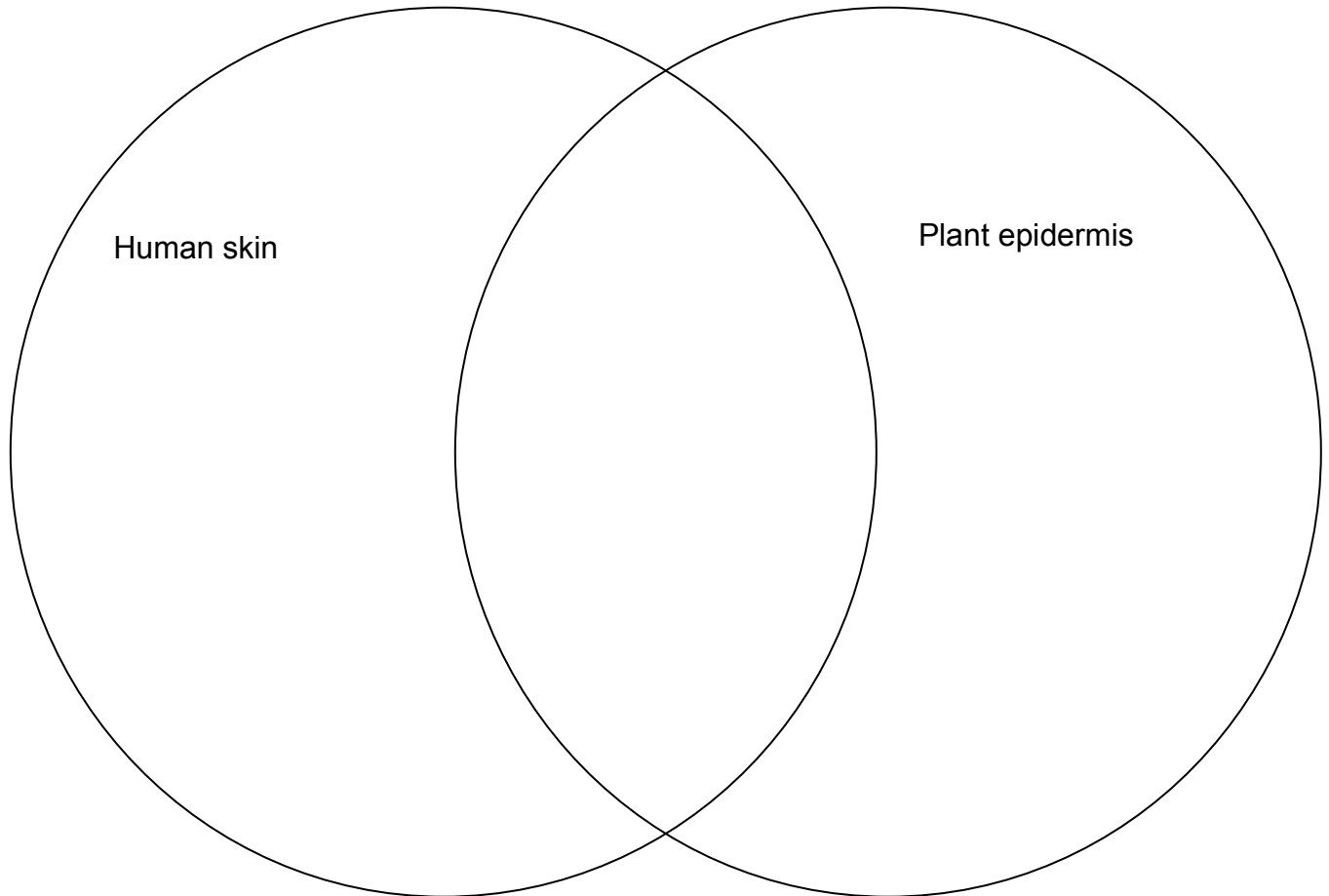
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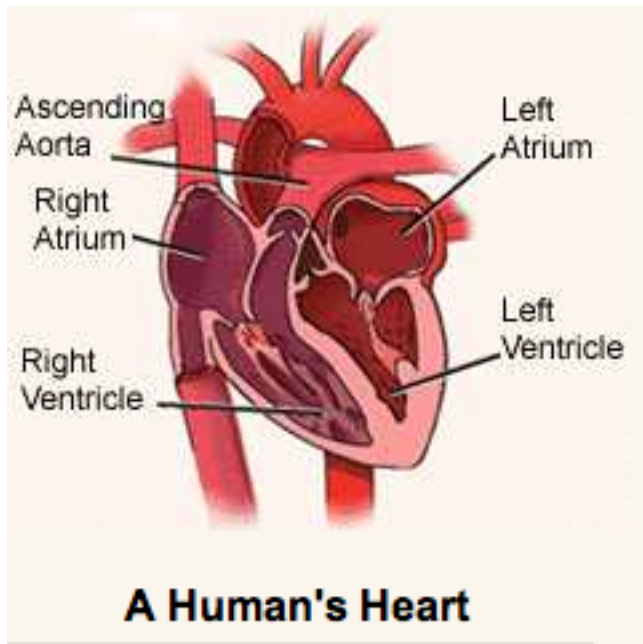
Part II-Look at the organs featured and fill in the Venn Diagrams

**Plant Epidermis**



The Venn diagram should have at least 3 similarities in the overlap and three in the remainder of each circle. Be sure to include similarities and differences between **structure and function**.

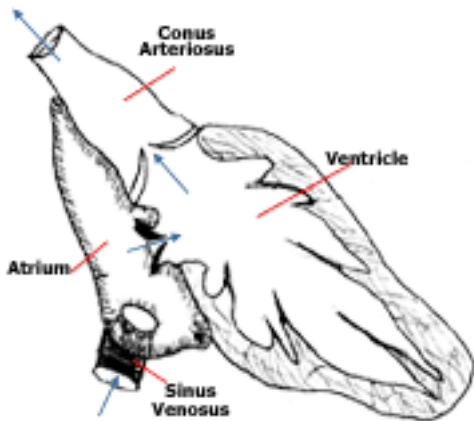




**Heart**



**A Frog's**



**A Fish Heart**

**Similarities of Hearts:**

**Differences in Hearts**

|       | Number of chambers | Number of connecting arteries and veins. | Efficiency of Heart (how much oxygenated blood does it send out?) | What else? |
|-------|--------------------|--|---|------------|
| Human |                    |  |   |            |
| Frog  |                    |  |   |            |
| Fish  |                    |  |   |            |