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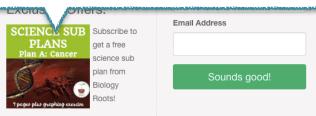
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#### **How do Living Things Provide Evidence for Evolution Homologous Structures**



Body parts in different organisms that have the same basic structure are called homologous structures. By comparing homologous structures, biologists can determine how organisms might be related. Homologous structures may not necessarily have the same function, but they are similar in structure (such as bone location and number of bones). The presence of homologous structures suggests that organisms evolved from a common ancestor.

Analogous structures have the same function; but are very different in structure.

Compare the meaning of the terms "homologous" and "analogous": 1.



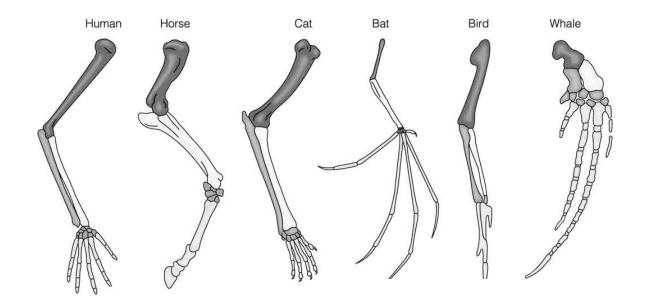
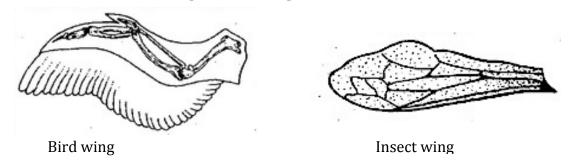


Figure 2: Analogous Structures



#### 2. Data Table 1: Homologous Structures

Use Figure 1 to complete the table:

Organism	Body Part	Function
Human		
Whale		
Cat		
Bat		
Bird		
Alligator		

3.	How are all the body parts in Figure 1 alike?		
-			
4.	How are they different? _		

#### 5. Data table 2: Analogous Structures

Use Figure 2 to complete the table:

Organism	<b>Body Part</b>	Function

## **Analysis and Conclusions**

6.	Why are the structures in Figure 1 homologous structures? (*note* the definition of homologous structures might be used to help support your answer, but it should not serve as the answer itself. Really analyze the bones- become an expert!).	

7. Why are the structures in Figure 2 analogous structures?				
8. Do the wings of birds and insects suggest an evolutionary relationship? How do you know?				
	Vestigial Struc	tures		
The question then arise structures may suggest attached to their pelvic animals that indeed had 9. <b>Thinking critically:</b>	s, why are these structures pran evolutionary past. For exagirdle. This suggests that snall legs and walked.  examine the examples of vest	iving organisms, but have no purpose. resent? Biologists find that these mple, snakes have reduced leg bones kes may have evolved from similar igial structures in the table below.		
Animal	Vestigial Structure	What might this tell us about its evolutionary past?		
Ostrich	Wings			
Whale	Pelvic limbs (leg bones)			
Human	Coccyx (tail bone)			
10. How do vestigial structures provide evidence of an organism's evolutionary past?				
11. How are homologo	ous and vestigial structures a	ike? How are they different?		