Angeles City Science High School

Science 10

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Activity 3: Analogous or Homologous?

Structure	Classification	Explanation
 Human arm Whale flipper	H	The human arm and whale flipper both have 5 fingers and almost the same finger length in each of their positions. However, the functionality is very much different as the human arm/hands are used to grab, use force, and is not that flexible, while the whale flipper is used to swim through the ocean.
 Human arm Alligator forelimb	H	The human arm and alligator forelimb both have 5 fingers. However, the alligator forelimb has all the fingers same length and is used to walk both in land and rivers. While the human arm has many uses and the length of each finger is different.
 Bat wing Butterfly wing	A	Even though they are different species (mammal and birds), they have the same functionality which is to fly. Their structures are different though.
 Bird wing Butterfly wing	A	Same thing with the bat wing and butterfly wing, both are birds and both of those parts have the same functionality but their structures are different.

Guide Questions:

1. How can the structures of an organism's body be used as evidence of evolution?

The structure of an organism's body is not that different from our modern one however, they have undergo many changes through the centuries and these proves that a species of that organism did exists at that time in that place.

2. Give another example of homologous or analogous aside from the given on the table.

An analogous example is the penguin's feet and duck's feet. They have the same functionality, and but have a little bit of differences in structure.