

Evidence Of Evolution Worksheet

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Part 1: Building a Foundation	
Which of the following best describes a fossil?	
Hint: Think about what a fossil represents in terms of past life.	
A) A living organism found in sedimentary rock	
○ B) A preserved remain or impression of an organism from the past	
C) A rock formation that contains minerals	
OD) A type of plant that existed millions of years ago	
Which of the following are examples of homologous structures?	
Hint: Consider structures that have similar origins but may serve different functions.	
☐ A) The wings of a bat and the arms of a human	
☐ B) The wings of a butterfly and the wings of a bird	
C) The flippers of a whale and the legs of a horse	
D) The eyes of a human and the eyes of a squid	
Explain what is meant by 'transitional fossils' and provide an example.	
Hint: Think about fossils that show intermediary forms between different groups.	
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List two key differences between homologous and analogous structures.

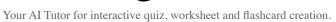


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Hint: Consider their origins and functions.
1. Difference 1
2. Difference 2
Z. Difference 2
Part 2: Comprehension and Application
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What does the presence of vestigials structures in an organism suggest?
Hint: Think about the evolutionary history of the organism.
A) The organism has recently evolved a new function
○ B) The organism has no evolutionary history
C) The organism shares a common ancestry with species that have functional versions of these structures
O) The organism is unrelated to any other species
Which of the following statements about the fossil record are true?
Hint: Consider what the fossil record represents in terms of species and time.
A) It provides evidence of the chronological order of species
B) It shows that all species appeared at the same time
C) It includes only complete specimens of organisms
D) It contains gaps due to the rarity of fossilization
Describe how stratigraphy is used to determine the age of fossils.
Hint: Think about the layers of rock and their significance.



inferred about its age?
Hint: Consider the relationship between rock layers and age.
 A) It is likely younger than the fossils found in shallower layers B) It is likely older than the fossils found in shallower layers C) It is the same age as the fossils found in shallower layers D) Its age cannot be determined from its position
Part 3: Analysis, Evaluation, and Creation
Which of the following best explains why analogous structures do not indicate common ancestry?
Hint: Think about the origins of these structures.
 A) They are found in organisms that live in the same environment B) They have different embryonic origins C) They perform different functions D) They are always identical in form
In what ways can the study of embryology provide evidence for evolution?
Hint: Consider the similarities observed in embryonic development.
 A) By showing similar stages of development in different species B) By identifying unique developmental pathways in each species C) By revealing vestigials structures during development D) By demonstrating that all embryos look identical
Analyze the significance of the Archaeopteryx fossil in understanding the evolution of birds.
Hint: Think about the features that link birds to dinosaurs.





Which of the following scenarios would most strongly support the theory of evolution by natural