

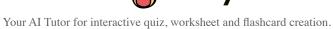
Convergent Evolution Quiz PDF

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Which of the following pairs are examples of convergent evolution? (Select all that apply)
Cacti and euphorbias Octopus eyes and human eyes Whale flippers and fish fins Elephant trunks and giraffe necks
What is convergent evolution?
○ The process where unrelated species evolve similar traits
○ The process where related species become more dissimilar
○ The process of genetic drift in small populations
The evolution of new species from a common ancestor
What term describes traits that arise from convergent evolution?
O Homologous structures
○ Vestigials structures
○ Analogous structures
○ Genetic mutations
Explain how environmental pressures can lead to convergent evolution.

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Why is it important to distinguish between convergent and divergent evolution when studying species traits?		
Which factor primarily drives convergent evolution?		
○ Genetic drift		
Environmental pressures		
Mutation rates		
Artificial selection		
Which research method is commonly used to study convergent evolution?		
○ Fossil analysis		
○ Comparative anatomy		
○ Radioactive dating		
Behavioral observation		
Which of the following are examples of convergent evolution? (Select all that apply)		
☐ The wings of bats and birds		
☐ The development of marsupials and placental mammals		
☐ The similar body shapes of sharks and dolphins		
☐ The beak variations in Darwin's finches		
Which factors contribute to convergent evolution? (Select all that apply)		
Similar environmental challenges		
☐ Shared genetic mutations		
Similar ecological niches		
Random genetic drift		
Which of the following is NOT a result of convergent evolution?		

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 Streamlined bodies of dolphins and ichthyosaurs Camera eyes of octopuses and vertebrates The fur of polar bears and grizzly bears Winds of insects and birds 	
Discuss the difference between analogous and homologous structures with examples.	
	//
Provide an example of convergent evolution and explain why it is considered convergent.	
	/1
How does convergent evolution challenge the interpretation of evolutionary relationships?	
	/

Describe the significance of convergent evolution in understanding natural selection.



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Which of the following best describes the difference between convergent and divergent evolution?
 Convergent evolution involves related species, while divergent evolution involves unrelated species. Convergent evolution results in similar traits, while divergent evolution results in dissimilar traits.
Convergent evolution results in similar traits, write divergent evolution results in dissimilar traits.
Convergent evolution is a type of artificial selection.
What are the characteristics of analogous structures? (Select all that apply)
☐ They have a similar function
☐ They arise from a common ancestor
☐ They result from convergent evolution
They have a similar structure
How does convergent evolution differ from divergent evolution? (Select all that apply)
Convergent evolution involves unrelated species
Divergent evolution results in similar traits
Convergent evolution results in similar traits
☐ Divergent evolution involves related species
Convergent evolution provides evidence for which evolutionary mechanism?
○ Genetic drift
O Natural selection
O Artificial selection
O Sexual selection
Which of the following are implications of convergent evolution in evolutionary biology? (Select all that apply)
☐ It complicates the understanding of evolutionary relationships
☐ It supports the theory of natural selection

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