

## **Natural Selection Quiz PDF**

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Who is credited with co-developING the theory of natural selection alongside Charles Darwin?
○ Gregor Mendel
○ Alfred Russel Wallace
○ Jean-Baptiste Lamarck
○ Thomas Malthus
How do environmental changes affect natural selection?
○ They have no effect
○ They alter selective pressures
They create new species instantly
They eliminate genetic variation
How might climate change alter the process of natural selection in polar bear populations?

Evaluate the importance of understanding natural selection in conservation efforts to preserve biodiversity.



Human activities can impact natural selection by: (Select all that apply)	
Altering habitats	
☐ Introducing invasive species	
☐ Increasing genetic variation	
Causing climate change	
Fundain have not used a classical locate to adoptation in a nonvelation	
Explain how natural selection leads to adaptation in a population.	
Describe the contributions of Charles Darwin to the theory of natural selection.	
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Analyze how the example of the pepperED moth demonstrates natural selection in action.



Discuss the role of natural selection in the development of antibiotic resistar	nce in bacteria.
For natural selection to occur, traits must be:	
○ Acquired	
○ Heritable	
○ Random	
○ Temporary	
What is the primary mechanism by which natural selection operates?	
<ul><li>Random chance</li><li>Adaptation</li></ul>	
○ Genetic drift	
Differential survival and reproduction	
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Which of the following are components of natural selection? (Select all that a	apply)
☐ Variation	
☐ Inheritance	
☐ Random mating	
☐ Differential survival	

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Which statements about natural selection are incorrect? (Select all that apply)



☐ It is a purposeful process
☐ It creates new traits
☐ It acts on existing variation
☐ It leads to adaptation
Which types of selection can lead to increased genetic diversity? (Select all that apply)
Stabilizing selection
☐ Directional selection
☐ DisruptIVE selection
Artificial selection
What is a common recult of reproductive ideletion in populations?
What is a common result of reproductive isolation in populations?
○ Genetic drift
Speciation
Extinction
○ Hybridization
Which examples illustrate natural selection? (Select all that apply)
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Which type of selection favors average phenotypes and reduces variation?	
O Directional selection	
○ DisruptIVE selection	
○ Stabilizing selection	
○ Artificial selection	
Which factors contribute to speciation? (Select all that apply)	
Decree destination in detical	
Reproductive isolation	
Genetic drift	
Genetic drift Continuous gene flow	
Genetic drift	