
Evolution: Natural and Artificial Selection Gizmo Assessment/5 Questions and Answers

A scientist wishes to create a population of bugs to match a certain background. Which of the following bugs should be bred to create offspring that have the genotype shown below? - -A. A and B

-Which of the following is not a characteristic of natural selection? - -C. Breeding pairs are chosen by humans.

-Which of the following statements is true about artificial selection? - -A. Breeders can control which animals mate.

-In this simulation, the mutation rate is the probability of a single gene mutating in an offspring bug. Assuming each offspring bug has six genes, which of the following snapshots most likely corresponds to a mutation rate of 4%? - -C. Image C

-A scientist used radiation to change the mutation rates of a population of bugs. He then measured how many generations it took for bugs with different mutation rates to adapt to a new background by natural selection. On the graph below, the x-axis represents the mutation rate, and the y-axis represents the number of generations it took for the bugs to reach an average fitness of 90%. Which of the following statements is most accurate?
- -B. Adaptation occurred more quickly as the mutation rate increased. However, this effect was relatively small for mutation rates above 1%.

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Answers Evolution Natural And Artificial Selection Gizmo

George Christopher Williams



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The Greatest Invention Silvia Ferrara, 2022-03-01 In this exhilarating celebration of human ingenuity and perseverance published all around the world a trailblazing Italian scholar sifts through our cultural and social behavior in search of the origins of our greatest invention writing The L where a tabletop meets the legs the T between double doors the D of an armchair's oval backrest all around us is an alphabet in things But how did these shapes make it onto the page never mind form complex structures such as this sentence In *The Greatest Invention* Silvia Ferrara takes a profound look at how and how many times human beings have managed to produce the miracle of written language traveling back and forth in time and all across the globe to Mesopotamia Crete China Egypt Central America Easter Island and beyond With Ferrara as our guide we examine the enigmas of undeciphered scripts including famous cases like the Phaistos Disk and the Voynich Manuscript we touch the knotted colored strings of the Inca quipu we study the turtle shells and ox scapulae that bear the earliest Chinese inscriptions we watch in awe as Sequoyah single handedly invents a script for the Cherokee language and we venture to the cutting edge of decipherment in which high powered laser scanners bring tears to an engineer's eye A code cracking tour around the globe *The Greatest Invention* chronicles a previously uncharted journey one filled with past flashes of brilliance present day scientific research and a faint fleeting glimpse of writing's future *Evolution Natural Selection* Balaji

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