

Chapter 1 : Practice Evolution Quizzes

The evolution of one species into two or more species as a result of different populations becoming reproductively isolated from each other is: a) adaptive radiation.

Practice Evolution Quizzes The following multiple choice questions are examples of the sorts of questions you should be able to answer. Answer the following multiple choice questions by choosing the letter of the response that represents the best answer to the question. Which of the following is not a source of variation in a population? Differences due to health. Differences due to age. Differences due to accident. None of the above. Which of the following examples of variation is not important from an evolutionary standpoint? Genetic differences between individual organisms comprising the population. Inherited differences between individual organisms comprising the population. Why is genetic variation important from an evolutionary standpoint? If all organisms were the same, the entire population would be vulnerable to particular pathogens, like viruses. All evolutionary adaptations e. Evolution at the population level refers to changes in the frequencies of genes in the population over time. All of the above. Which of the following is an example of genetic variation? Two children have different eye colors. One person is older than another. One person has a scar, but her friend does not. Todd eats meat, but his brother Rod is a vegetarian. Which of the following is an example of environmental variation? Apu is a tongue roller, but his brother Sanjay is not. Marge dies her hair blue. Patti and Selma have hanging ear lobes. Bart is a boy because he has both an X and a Y chromosome. Sexual selection occurs during sex. Natural selection is a type of sexual selection. Sexual selection is a type of natural selection. Sexual selection occurs within demes, natural selection does not. Genetic drift does not require the presence of variation. Genetic drift does not involve competition between members of a species. Genetic drift never occurs in nature, natural selection does. There is no difference. According to our reading, how did Georges Cuvier account for extinctions in nature? Extinctions never occur--there are unexplored parts of the globe where organisms that appear to have gone extinct may still live. Extinctions occur when the slow adaptation of organisms over time to their environment is not quick enough to help them respond to changing conditions. Extinctions are due to catastrophic events. Why, according to our reading, did Darwin take so long to publish the Origin of Species? Darwin wanted to share his theory as quickly as possible once he returned from his voyage on the Beagle. It took twenty years for Darwin to develop a theory. Darwin suffered from a number of illnesses. Darwin was concerned about the reaction of others to the implications of his theory. In which of the following ways is natural selection not analogous to artificial selection? With natural selection "picking" is due to the fit of an organism with its environment; whereas in artificial selection, the breeder "picks" which organisms will breed. Natural selection depends upon the presence of variation, artificial selection does not. Natural selection occurs within populations, artificial selection does not. There is a limit to how much change can be brought about by natural selection, no such limit exists for artificial selection. Why is the advent of reproductive isolation important from an evolutionary standpoint? When the organisms comprising two populations of a species can no longer interbreed, the flow of genetic material between them stops. It is not important from an evolutionary standpoint. The question is based on a false assumption. Reproductive isolation increases the mutation rate. Reproductive isolation may slow reproduction. The effect of traits on the fitness of an organism can be assessed independently of whether the organism indeed survives. It is regarded as a tautology - the question is based on a false assumption. Natural selection is true. There may be some statements in science that are useful even if they are not falsifiable or refutable in principle. The variation natural selection operates on is due to random mutations. What does this imply about natural selection? Natural selection is also a random process. Natural selection is nevertheless a directed process- the likelihood one variant will be favored in a given environment over another is predictable, even if the origin is not. There is no possibility God could be involved in this process. A, B and C. Scientists recognized that once one thinks about species as populations, rather than individuals, there is no incompatibility between them. It was recognized much of the variation we observe in nature is due to recombination, rather than mutation. There are patterns in the fossil record that suggest other species have diverged from a single ancestor species.

There are biogeographic patterns in the distribution of species, for instance distinct bird species on an island tend to resemble one another, suggesting a common ancestor. There are common stages in the early embryological development of organisms representing several distinct vertebrate groups. Anatomical structures, such as forelimbs, in different groups appear to be modified versions of structures that might have been present in a common ancestor. What is the relationship between the wing of a bird and the wing of a bat? They are homologous because they represent modified forms of a trait present in a common ancestor forelimbs. They are analogous because while each carries out the same function flight, this trait has arisen independently as a result of convergence. They represent derived homologies. Which of the following is not an example of a macroevolutionary process? One lion species splits to form two lion species over geological time. The same trait evolves independently in two different taxa. As a result of their activities, humans drive Dodos a bird species extinct. Which of the following is an example of an ancestral homology? Almost all modern reptiles, birds and mammals have forelimbs, a trait they also share with contemporary amphibians. The first birds and all their descendant species have feathers, a trait that is unknown in any other group. Humans and many insect species have eyes. Which of the following is not an example of microevolutionary change? The dark form of many moth species has increased in areas darkened by pollution. Penicillin resistant forms of bacteria have arisen since the introduction of antibiotics. The proportion of left and right bending moths in cichlid fish remains roughly equal. The last American eagle dies off, leading to the extinction of the species. Which of the following are difficult to explain in terms of natural selection? Male peacocks evolve tail feathers that would appear to make them more rather than less vulnerable to predators. Male deer evolve antlers that are not used to defend themselves against predators. A bird issues a warning cry that puts it at greater risk of being noticed by a predator. Some traits appear to have no adaptive value. Which of the following is not an example of a monophyletic taxon? The first fish species and every living organism that looks like a fish. The first mammal species and all its descendants. The first bird species and all its descendants. Which of the following are kingdoms?

Chapter 2 : SparkNotes: Review of Evolution: Review Test

Practice quiz: darwin and evolution by natural selection with Khan Academy's free online exercises.

Which of the following is true? Environmental variation is inherited Variation can not be inherited Genetic variation is inherited Genetic variation is not inherited Variation is carried by the genes and is therefore inherited. Environmental variation occurs after birth and is not recorded on the genes so cannot be passed from parent to offspring 2. A few years A few hundreds of years Several thousand years Millions of years Darwin believed that evolution took place very slowly in complex plants and animals. It is possible to see evolution happening over much shorter time periods when you look at simple organisms like bacteria 4. Which of the following is an example of rapid evolution caused by mutation? Dinosaurs Antibiotic resistant bacteria in hospitals Humans Normally, evolution occurs slowly over a period of millions of years. Most antibiotic resistant bacteria have evolved since the s when antibiotics were first widely used 5. Before the Industrial Revolution most peppered moths were pale, but there was a mutant form which had dark colouration - the black peppered moth. During the Industrial Revolution, in cities the mutant black peppered moth became more numerous. Which of the following statements could explain why? White peppered moths are bigger Dark peppered moths are bigger White peppered moths are easier to see on dirty tree bark Dark peppered moths are easier to see on dirty tree bark This question is about camouflage. Air pollution from the Industrial Revolution made trees near factories dirty. Factories were built in urban areas so the first two options can be dismissed as size is not related to the colour mutation. According to Darwin, new species evolve by which process? Unnatural selection Premium selection Natural selection Negative characteristics that are passed on to offspring gradually disappear from the gene pool as the organisms that carry them do not survive long enough to have many offspring 7. Fossils Records made by naturalists in the 19th Century Books Human fossils from 7 million years ago have been found. Which one of the following is not a reason why scientists at the time rejected it? It conflicted with religious views Darwin had little evidence Other scientists were jealous of Darwin No-one knew how variation and inheritance worked Darwin was ridiculed by the press and some of the leading scientists of the time as they did not like the idea that they were descended from the apes 9. Which organisms are most likely to survive long enough to reproduce? Ones which are badly adapted to their environment Ones which are well adapted to their environment The biggest ones Well adapted individuals survive longer and will have more offspring Why is the evolutionary record of the horse so well documented?

Chapter 3 : GCSE Evolution | Variation and Natural Selection Revision

The quiz will basically be based on Darwin's theory of natural selection, Evolution, and Evolution of environmental adaptation, Let's start!

Chapter 4 : Top Evolution Quizzes, Trivia, Questions & Answers - ProProfs Quizzes

Darwin published his theory of evolution with compelling evidence in his book On the Origin of Species, overcoming scientific rejection of earlier concepts of transmutation of species. By the s, the scientific community and much of the general public had accepted evolution as a fact.

Chapter 5 : Sandwalk: A quiz on Darwin's Theory of Evolution

This is a quiz that tests your knowledge on everything that is related with the patterns in evolution. Preferably, please take a look at our presentation and then try solving the quiz. This quiz contains potential test.

Chapter 6 : Origin of Species quiz - Science Quizzes (ABC Science)

DOWNLOAD PDF EVOLUTION AND DARWINING QUIZ

This quiz covers the basics of evolution by natural selection, including concepts such as comparative anatomy, DNA evidence, and observations made by Darwin on the Galapagos Islands.

Chapter 7 : GCSE Evolution | Revise Theories like Natural Selection

What is evolution? Prompt development, from a simple to a more complex form. Gradual development, from a less adaptable to a more adaptable form through the process of natural selection.

Chapter 8 : Quiz Theory of Evolution

Show transcribed image text Name Date Quiz 1 1. Charles Darwin is famous for the following theory a. Charles Darwin is famous for the following theory a. Evolution b.

Chapter 9 : Quiz: Darwin and evolution by natural selection (practice) | Khan Academy

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