Read the following situations below and identify points of Darwin's natural selection.

There are 2 types of worms: worms that eat at night (nocturnal) and worms that eat during the day (diurnal). The birds eat during the day and seem to be eating ONLY the diurnal worms. The nocturnal worms are in their burrows during this time. Each spring when the worms reproduce, they have about 500 babies but only 100 of these 500 ever become old enough to reproduce.



Identify a type of variation in the worms.

Which variation is most favorable?

In 50 years, what will natural selection have most likely done for the worms?

What adaptations might occur in the birds in 100 years? ___

2) There are 3 types of polar bears: ones with thick coats, ones with thin coats and ones with medium coats. It is fall, soon to be winter. The temperatures are dropping rapidly and the bears must be kept warm, or they will freeze to death. Many of the bears have had ~2 cubs each but due to the extreme temperatures, many mothers only have one cub left.



Identify a type of variation in the polar bears

Which variation is most favorable? _

In 50 years, what will natural selection have most likely done to the polar bears?

Jackals love mile

In ostriches, there are 2 types: ones that run fast and those that run slowly. The fast birds can reach up to 40 miles an hour.

Jackals love to eat ostrich, and they can reach speeds of up to 35-40 miles per hour. A flock of ostrich will lay ~ 10 eggs (each mother only lays 1), but many rodents break into the eggs and eat the fetus before they hatch.

Identify a type of variation in the ostriches

What adaptation might occur in the jackals in 100 years?

 #4: A population of insects is sprayed with a new insecticide. Most of the insects are killed but a few survive. In the next generation, many more of the insects are unaffected by the insecticide. Which of the following BEST explains these results?

- The insecticide caused a mutation in the species.
- A few insects in the first population were immune and passed this trait to their offspring.
- c. The insecticide caused a side effect of immunity that was passed on to the next generation of insects.
- d. The insects learned to fight off the insecticide.

Darwins Natural Selection Case Studies Worksheet Answers

Charles Darwin

Darwins Natural Selection Case Studies Worksheet Answers:

Charles Darwin's Natural Selection Charles Darvin, Robert C. Stauffer, 1975 **Quicklet On Charles Darwin's The** Origin of Species Nicole Silvester, 2012-02-08 ABOUT THE BOOK The Origin of Species by Charles Darwin is arguably one of the most important works of scientific writing ever to be published Science today recognizes that the principles of natural selection Darwin described are the primary driving forces behind the evolution of new species and evolution itself underpins all of the biological sciences including medicine For a natural historian whether a professional scientist or an avid amateur like me Darwin's work is an illustration of how a single dedicated individual can look at the mind boggling variety of life on our planet and make sense of it Though few people have read the book nearly everyone has read about it Those who do venture to crack the covers of the Origin as it's commonly known discover a surprisingly readable account though one dense with details and examples It is the sort of book that can take some effort to get all the way through but which leaves the reader feeling it was a worthwhile effort For me it underlined the beauty and richness of life on Earth and gave me many new avenues down which to let my curiosity wander It is also a testament to the kind of meticulous research combined with brilliant thinking upon which the best science depends MEET THE AUTHOR Nicole has been writing since she could make letters with a pencil and has been making a living at it for more than ten years. She has gone back to school too many times studying archaeology folklore writing and visual art She writes fiction under several pen names and also does printmaking book arts and photography She's an avid amateur natural historian with a particular fascination for things that fly whether it s birds bats or insects And if it s possible to be both a luddite with a love for the low tech and a technophile with a fascination for everything new and shiny Nicole is both She reads too many books plays too many video games and watches too much anime EXCERPT FROM THE BOOK It is difficult to overstate the importance of The Origin of Species It has been both loved and reviled but Darwin's theory has stood up to repeated challenges until it has become what scientists call a robust theory for a layperson there is little difference between that and a fact A robust theory is one that has been tested and confirmed again and again It took Charles Darwin many years to write his masterwork and he only really considered publishing it when it came to his attention in 1855 that a younger scientist Alfred Russel Wallace was working on a similar theory Without that impetus the book would likely have taken many more years Wallace's work which he sent to Darwin in 1858 in a 20 page paper outlining an evolutionary theory similar to Darwin's finally provided the impetus for Darwin to set down his ideas in a form others could read In the end the two men claimed joint discovery of the mechanisms of evolution though it s Darwin whose name we remember and Darwin's thorough and meticulous work that gave the theory its strongest support Darwin had actually worked out his basic theory of natural selection by 1838 but he was such a perfectionist that he didn't publish it until nearly 20 years later With each new edition of the Origin Darwin added additional examples and evidence and answered many challenges from his scientific opponents And though today the Origin is considered to be a work only read by scientists

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