

Natural Selection – Darwin's Five Points

Read the following situations below and identify the 5 points of Darwin's natural selection.



1) 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.

a. What worm has natural selection selected AGAINST? diurnal worms FOR? nocturnal worms

Darwin's 5 points (listed below): Identify the 5 points in the scenario above.

Population has variations. there are 2 types of worms mentioned in the area

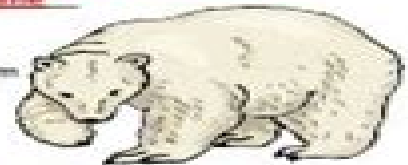
Some variations are favorable. the birds do not eat the nocturnal worms

More offspring are produced than survive. 100 of the original 500 worms survive to reproducing age

Those that survive have favorable traits. only nocturnal worms survive and reproduce

A population will change over time. nocturnal worms survive, the numbers will grow, and the numbers of the diurnal worms will decrease over time

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.



a. What bear will natural selection select AGAINST? bears w/ thin coats FOR? bears w/ thick coats

Darwin's 5 points: Identify the 5 points in the scenario above.

Population has variations. there are 3 types of bears

Some variations are favorable. thick coats provide warmth to survive

More offspring are produced than survive. half of the total cubs born survive

Those that survive have favorable traits. bears with thicker coats have a higher survival rate

A population will change over time. survival rate of bears with thicker coats rises, population of bears with thin coats will gradually decrease



3) 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.

a. What ostrich will natural selection select AGAINST? slow ostriches FOR? fast ostriches

Darwin's 5 points: Identify the 5 points in the scenario above.

Population has variations. there are 2 types of ostriches

Some variations are favorable. jackals can't easily catch the fast ostriches

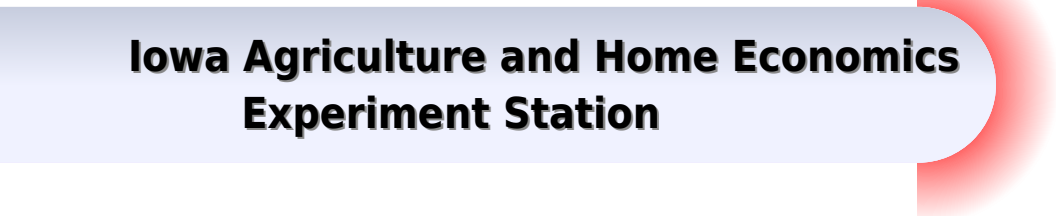
More offspring are produced than survive. many eggs get eaten by rodents before they can hatch

Those that survive have favorable traits. more of the faster ostriches can survive

A population will change over time. survival rate of the faster ostrich is higher, so their populations will grow, while the populations of the slower ostriches will decrease

Darwins Natural Selection Worksheet Answers Key

**Iowa Agriculture and Home Economics
Experiment Station**



Darwins Natural Selection Worksheet Answers Key:

Unveiling the Magic of Words: A Review of "**Darwins Natural Selection Worksheet Answers Key**"

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