

7.3 – Artificial Selection

Explains how humans can control something within a population.

Through artificial selection, humans affect variation in other species.

- **artificial selection** – humans selectively breed species with desirable traits
 - growing drought – resistant crops or other animals (dog breeds)
 - can lead to more or less genetic diversity
 - monocropping and crazy dog breeds

Explains how relationship between organisms in two environments and environment changes in two dimensions.

Convergent evolution occurs when similar or selective pressures result in similar phenotypic adaptations in different populations or species.

- **convergent evolution** – similar environmental conditions result in similar traits in different populations or species over time
 - can occur in distant or unrelated species
 - **analogous structures** – features of different species that have a similar function, but not similar structure
 - streamlined bodies in marine vertebrates (fish/reptiles)
 - strong, sharp claws, long snouts, stick tongues to catch insects in echidnas, anteaters, pangolins; bird and insect wings

7.4 – Population Genetics

Explains how random occurrences within the genetic material of a population.

Evolution is also driven by random occurrences–

a. Mutation is a random process that contributes to evolution.

- **mutation** – random alteration in a DNA sequence, that contributes to changes in a population's genetic makeup over time, creating genetic variation, the new genotype can provide new phenotypes

b. Genetic drift is a nonselective process occurring in small populations–

- **genetic drift** – **random** change in a population's allele frequency
 - generally, affects **smaller populations** more
 - increased death and low reproduction rates
 - natural catastrophes

i. Bottlenecks–

- **bottleneck effect** – large, diverse population reducing into a small one

Bio Unit 7 Study Guide 43 Answers

Neil A. Campbell



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