

## AP Biology Chapter 23 Notes The Evolution of Populations

What you need to know...

- How \_\_\_\_\_ and \_\_\_\_\_ reproduction each produce genetic \_\_\_\_\_.
  - The conditions for \_\_\_\_\_ equilibrium.
  - How to use the Hardy-Weinberg equation to calculate allelic \_\_\_\_\_ and to test whether a population is \_\_\_\_\_.
- \_\_\_\_\_ - change in allele frequencies over generations

### Concept 23.1: Mutation and sexual reproduction produce the genetic variation that makes evolution possible

- Two processes produce the variation in gene pools that contributes to differences among individuals
  - \_\_\_\_\_
  - \_\_\_\_\_ reproduction
- \_\_\_\_\_ *characters* can be classified on an **either-or basis**
- \_\_\_\_\_ *characters* vary along a **continuum** within a population
- \_\_\_\_\_ measures the **average** percent of loci that are **heterozygous** in a population
- Most species exhibit \_\_\_\_\_ **variation**, differences between gene pools of separate populations or population subgroups
- Some examples of **geographic variation** occur as a \_\_\_\_\_, which is a graded change in a trait along a geographic axis
- \_\_\_\_\_ are **changes in the nucleotide sequence** of DNA
  - Mutations cause \_\_\_\_\_ genes and alleles to arise
  - *Only* mutations in cells that produce gametes can be \_\_\_\_\_ to offspring
  - A \_\_\_\_\_ mutation is a change in one base in a gene
    - The **effects** of point mutations can vary:
      - in \_\_\_\_\_ regions of DNA are often **harmless**
      - in a \_\_\_\_\_ might not affect protein production because of redundancy in the genetic code
      - Mutations that result in a **change in protein production** are often \_\_\_\_\_
      - Mutations that result in a **change in protein production** can sometimes \_\_\_\_\_ the fitness between organism and environment
  - Mutation \_\_\_\_\_ are **low** in animals and plants
    - The average is about one mutation in every 100,000 genes per generation
  - Mutations \_\_\_\_\_ are often **lower** in prokaryotes and **higher** in viruses

### Concept 23.2: The Hardy-Weinberg equation can be used to test whether a population is evolving

- A \_\_\_\_\_ is a localized group of individuals capable of interbreeding and producing fertile offspring
- A \_\_\_\_\_ **pool** consists of all the alleles for all loci in a population
- A \_\_\_\_\_ is fixed if all individuals in a population are homozygous for the same allele

# Ap Biology Chapter 23 Answers

**The Princeton Review**



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