

Chapter 16 Population Genetics and Speciation

Section 1 Vocabulary Pretest

1. Population Genetics	4. Allele Frequency
2. Microevolution	5. Phenotype Frequency
3. Gene Pool	

Population Genetics

- _____ is the study of evolution from a genetic point of view (it is the study of microevolution)
- _____ —a change in the collective genetic material of a population
✓ _____ —members of the same species that can interbreed. It is the smallest unit in which evolution occurs.

Variation

- Populations show _____.
- Many quantitative traits (height and weight etc.) follow a _____.

Causes of Variation

- _____ —amount of food, quality of food, etc.
- _____
- ✓ _____ —random changes in genes
- ✓ _____ —reshuffling of genes
- ✓ _____ of gametes

Gene Pool

- _____ —total genetic information available in a population

Allele and Phenotypic Frequency

- _____ —expressed as a percent: it is determined by _____ of all types in the population
- _____ —expressed as a percent: it is the number of individual with a particular _____ divided by the total number of individuals in the population.

Population Genetics And Speciation Vocab Review

**Holt Rinehart & Winston, Holt,
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Population Genetics And Speciation Vocab Review:

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Cronk, Richard M. Bateman, Julie A. Hawkins, 2004-01-29 A benchmark text Developmental Genetics and Plant Evolution integrates the recent revolution in the molecular developmental genetics of plants with mainstream evolutionary thought It reflects the increasing cooperation between strongly genomics influenced researchers with their strong grasp of technology and evolutionary morphogenetists and sys **Science Books & Films** ,1987 **Through the Lens of Anthropology**

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Stamos, 2003-03-17 In this provocative work David N Stamos tackles the problem of determining exactly what a biological species is in short whether species are real and the nature of their reality Although many have written on this topic The Species Problem is the only comprehensive single authored book on this central concern of biology Stamos critically considers the evolution of the three major contemporary views of species species nominalism species as classes and species as individuals Finally he develops his own solution to the species problem a solution aimed at providing a universal species concept worthy of the Modern Synthesis This book will be of interest to philosophers of biology and of science in general to historians of biology and to biologists concerned with one of the most significant and practical conceptual issues in their field

The Journal of the Bombay Natural History Society Bombay Natural History Society, 1964 **Biology a Guide to the Natural World** David Krogh, Laurel Robeerts, 2002 **The Living Environment** Rick Hallman, 2001 **A Consumer's Guide to Biology Textbooks, 1985** Wayne A. Moyer, William V. Mayer, 1985 Biology Kenneth R. Miller, 1991 *Annual Review of Ecology and Systematics* Peter W. Frank, Richard F. Johnston, Charles Duncan Michener, 1979

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