

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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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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