

Topic Review Guide: Genetic Drift (Video #2)

To Think About: How is natural selection a major mechanism of evolution?

Watch: [Mr. Andersen's Genetic Drift video](#).

Read: Chapter 23, [Campbell's Biology](#), 9th ed. (2011).

Supplementary Resources:

- [Crash Course's Population Genetics video](#).
- Kimball's Biology Pages: [The Hardy-Weinberg Equilibrium](#)
- [Genetic Drift Simulation at the University of Arizona](#)

Listen and Look: Here is a list of key terms you will hear and see during this podcast. Get to know them! Be able to connect them to one another using a concept map.

Gene pool	Alleles	Genetic drift	Population
Allele frequency	Founder effect	Hardy-Weinberg Equilibrium	
Bottleneck effect	Species		

Recall and Review: Use the lecture in the video and your textbook to help you answer these questions in your BINDER.

1. What is the briefest definition of genetic drift?
2. What do the variables p and q stand for?
3. How does each of the following affect the allele frequency of a population?
 - a. Small population
 - b. Large population
 - c. Bottlenecking event, such as a natural disaster or man-made bottleneck (through hunting to near extinction)
 - d. Founding event
 - e. Sexual selection
 - f. Natural selection
4. Why does less genetic drift take place in a large population?
5. How does natural selection result in an increase in the frequency of beneficial alleles in a population over time, and a decrease in the frequency of deleterious (harmful) alleles?
6. How does the process of sexual reproduction affect the evolutionary process?
7. Give examples of directional selection, stabilizing selection and diversifying selection.
8. Create a drawing that explains how each of the following mechanisms can affect allele frequencies in a population:
 - a. mutation
 - b. gene flow
 - c. genetic drift
 - d. nonrandom mating
 - e. selection (natural or otherwise)
9. Explain why the concept of Hardy-Weinberg equilibrium is important even though the assumptions that it is based on are never met in nature.
10. Although the assumptions of the Hardy-Weinberg equilibrium are never met completely in real populations, the genotype frequencies of many populations do not deviate significantly from H-W expectations. Explain why.



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N Noddings



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Biological Investigations Lab Manual Warren Dolphin, David Vleck, Linda Westgate, James Colbert, 2010-01-27 The lead author of eight successful previous editions has brought together a team that combined has well over 60 years experience in offering beginning biology labs to several thousand students each year at Iowa State University Their experience and diverse backgrounds ensure that this extensively revised edition will meet the needs of a new generation of students Designed to be used with all majors level general biology textbooks the included labs are investigative using both discovery and hypothesis based science methods Students experimentally investigate topics observe structure use critical thinking skills to predict and test ideas and engage in hands on learning Students are often asked what evidence do you have that in order to encourage them to think for themselves By emphasizing investigative quantitative and comparative approaches to the topics the authors continually emphasize how the biological sciences are integrative yet unique An instructor s manual available through McGraw Hill Lab Central provides detailed advice based on the authors experience on how to prepare materials for each lab teachings tips and lesson plans and questions that can be used in quizzes and practical exams This manual is an excellent choice for colleges and universities that want their students to experience the breadth of modern biology

Resources in Education ,1979-10 **Study Guide** George Karleskint,1991 *Study Guide* Johnson, Judith Stewart, 2000-12 Designed specifically for the one semester human biology course Contains traditional chapter review and self testing activities *Student Study Guide for Campbell's Biology Second Edition* Martha R. Taylor, 1990 *AP Biology Preparation Guide* Phillip E. Pack, 1994 Provides a review of key concepts and terms advice on test taking strategies and full length practice exams *Student Study Guide to Accompany Biology and Human Concerns*, by E. Peter Volpe Peter A. Rosenbaum, 1993 **Genetic Drift** ,1990 *Resources in Education* ,1979 **Genetics** George J. Brewer, Charles F. Sing, 1983 **Heredity** ,1947 **Grounds for Cognition** Radu J. Bogdan, 2014-01-02 Q Why do organisms need cognition A To get information about their environments Q Why such information A Because organisms need to guide their behaviors to goals Q Why guidance A Because it leads to goal satisfaction Q Why goals Cognition is a naturally selected response by genetic programs to the evolutionary pressure of guiding behaviors to goals Organisms are material systems that maintain and replicate themselves by engaging their world in goal directed ways This is how guidance of behavior to goal grounds and explains cognition and the main forms in which it manages information Guidance to goal also makes a difference to the understanding of human cognition Simpler forms of cognition evolve to handle fixed informational transactions with the world whereas human cognition evolves the abilities to script flexible goal situations that fit specific contexts of behavior This teleoevolutionary approach has important implications for cognitive science two of which are programmatic One is that information that guides to goal is not exclusively cognitive guidance is also affected by ecological facts and regularities as well as by design assumptions about them The other implication is that the functional analyses

dominant in cognitive science and philosophy of mind are incomplete and weak They are incomplete in that they focus only on the explicitly encoded cognitive information and its behavioral consequences thus ignoring the larger guidance arrangements and weak because causal and functional relations implement but underdetermine goal directed and goal guided processes A work dealing expressly with the foundations of cognitive science this book addresses basic but seldom asked questions about the evolutionary rationale of cognition and the way this rationale has shaped the major types of cognition It also provides a teleological answer to these basic questions in terms of goal directedness and particularly guidance of behavior to goal In so doing the work defends the scientific respectability and the explanatory necessity of teleology by showing that goal directedness characterizes the work of genetic programs *Research in Education* ,1972

The School Science Review ,2002 Jacaranda Nature of Biology 2 VCE Units 3 and 4, LearnON and Print Judith Kinnear,Marjory Martin, Lucy Cassar, Elise Meehan, Ritu Tyagi, 2021-10-29 Jacaranda Nature of Biology Victoria's most trusted VCE Biology online and print resource The Jacaranda Nature of Biology series has been rewritten for the VCE Biology Study Design 2022 2026 and offers a complete and balanced learning experience that prepares students for success in their assessments by building deep understanding in both Key Knowledge and Key Science Skills Prepare students for all forms of assessment Preparing students for both the SACs and exam with access to 1000s of past VCAA exam questions now in print and learnON new teacher only and practice SACs for every Area of Study and much more Videos by experienced teachers Students can hear another voice and perspective with 100s of new videos where expert VCE Biology teachers unpack concepts VCAA exam questions and sample problems For students of all ability levels All students can understand deeply and succeed in VCE with content mapped to Key Knowledge and Key Science Skills careful scaffolding and contemporary case studies that provide a real word context eLogbook and eWorkbook Free resources to support learning eWorkbook and the increased requirement for practical investigations eLogbook which includes over 80 practical investigations with teacher advice and risk assessments For teachers learnON includes additional teacher resources such as quarantined questions and answers curriculum grids and work programs **The Journal of Rheumatology** ,2004 Biology ,1993 The Philosopher's Index ,2008 Vols for 1969 include a section of abstracts *Biology* Joseph S. Levine, Kenneth R. Miller, 1998 **Documentation Abstracts** ,1984

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