

Answers to Chapter 18 Study Questions

1. What two different types of organisms did Griffith use to conduct his studies? *Griffith used two strains of the bacterium, *Streptococcus pneumoniae* (S-pathogenic and R-nonpathogenic) and mice. Use the following table to help outline his experiment.*

	Bacteria used	Experiment	Result
Control 1	Living S-strain	Injected into mice	Mice died of pneumonia
Control 2	Living R strain	Injected into mice	Mice remained healthy
Control 3	Heat-killed S-strain	Injected into mice	Mice remained healthy
Experiment	Mixture of heat-killed S-strain and living R cells	Injected mixture into mice	Mice died of pneumonia Living bacteria in mice blood were "transformed" into the S strain

Why was the S-strain pathogenic? *This strain produced a capsule that protected the bacteria from the host's (mouse) immune system. What was Griffith's conclusion? An unknown heritable substance from dead S cells allowed R cells to make capsules and thus transformed the R cells into S cells. Did Griffith know what the unknown heritable substance was? No.*

2. What was the overall purpose of the experiment conducted by Hershey and Chase with radiolabeled T2 bacteriophage and *E. coli*? *The purpose of this experiment was to try to discern if the hereditary material was DNA or protein.*

What happens to *E. coli* when it is infected with T2 bacteriophage? *T2 reprograms the bacterial cell to make thousands of virus particles.*

What does a T2 phage look like? *T2 phage is a simple virus consisting of a protein coat that includes the phage head, tail sheath, and tail fibers. The DNA is found in the head of the virus.*

Why was ^{35}S used to label T2 proteins? *The amino acid methionine and cysteine contain sulfur. Nucleic acids do not contain sulfur.*

Why was ^{32}P used to label DNA? *Phosphate is found in the backbone of a DNA strand. Phosphorus is not found in amino acids.*

When the labeled T2 phage infected *E. coli* cells, where was radioactivity found after the cultures were agitated and centrifuged to pellet bacterial cells? *Use the table below to answer this question.*

	Location of radioactivity after agitation and centrifugation of bacterial cells	Conclusion
^{35}S -labeled proteins	Supernatant	The viral proteins did not enter the bacterial cells. Proteins must not be the hereditary material.
^{32}P -labeled DNA	Pellet <i> Newly synthesized phage particles also contained DNA that was partially labeled with ^{32}P.</i>	The viral DNA entered the bacterial cells and directed the synthesis of new viral particles. DNA must be the hereditary material in T2 bacteriophage.

3. Why did scientists initially believe that proteins were the carrier of genetic information? *Compared to nucleic acids, proteins are more complex and heterogeneous molecules.*

Cite evidence generated from Erwin Chargaff that revealed that DNA has molecular diversity among species. *The content of adenine was 30% in humans but 20% in *E. coli*.*

What is Chargaff's rule? *Within a species, the number of adenines = number of thymines, and the number of guanines = number of cytosines.*

Scientific Inquiry Study Island Answers

Michael Brown



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Living Physical Geography Bruce Gervais, 2015-01-09 Bruce Gervais new text offers a fresh approach to the study of physical geography combining print and digital media to create a scientifically substantive work that is written for students Living Physical Geography focuses on human physical geography interactions using pedagogical features in the textbook and online to create a modern synthesis of the science of physical geography Each of the four major parts in Living Physical Geography is identified by energy flows within Earth's physical systems Additionally landscape analysis underpins the body of the text Step by step examples are used to illustrate how landforms and systems develop evolve and change through time

RTI & Differentiated Reading in the K-8 Classroom William N. Bender, Laura N. Waller, 2011-04-01 Make the transition from traditional whole group reading instruction to the 21st century classroom by integrating three innovations that will dramatically improve elementary reading instruction RTI differentiated instruction and technology Detailed explanations helpful case studies and recommendations of current technologies bring these ideas to life

Technology as a Tool for Diversity Leadership: Implementation and Future Implications Lewis, Joél, Green, André M., Surry, Daniel W., 2012-12-31 Although diversity and leadership are not new concepts the changing of populations advances in technology and development of theoretical perspectives have led to the emergence of diversity leadership as an important field of study As technology continues to bring people together it aids in the organizational approach of embracing uniqueness and finding innovative ways to reach higher levels of performance Technology as a Tool for Diversity Leadership Implementation and Future Implications focuses on the technological connections between diversity leadership and the focus on inclusivity involvement and communication to meet the needs of multicultural environments This book highlights societal implications in real world problems and performance improvement in organizations

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An Introduction to Scientific Research Methods in Geography and Environmental Studies Daniel Montello, Paul Sutton, 2012-12-10 Covers a broad range of subjects that undergraduates in the discipline should be familiar and comfortable with upon

graduation From chapters on the scientific method and fundamental research concepts to experimental design sampling and statistical analysis the text offers an excellent introduction to the key concepts of geographical research The content is applicable for students at the beginning of their studies right through to planning and conducting dissertations The book has also been of particular support in designing my level 1 and 2 tutorials which cover similar ground to several of the chapters Joseph Mallalieu School of Geography Leeds University Montello and Sutton is one of the best texts I ve used in seminars on research methodology The text offers a clear balance of quantitative vs qualitative and physical vs human which I ve found particularly valuable The chapters on research ethics scientific communication information technologies and data visualization are excellent Kenneth E Foote Department of Geography University of Colorado at Boulder This is a broad and integrative introduction to the conduct and interpretation of scientific research covering both geography and environmental studies Written for undergraduate and postgraduate students it Explains both the conceptual and the technical aspects of research as well as all phases of the research process Combines approaches in physical geography and environmental science human geography and human environment relations and geographic and environmental information techniques such as GIS cartography and remote sensing Combines natural and social scientific approaches common to subjects in geography and environmental studies Includes case studies of actual research projects to demonstrate the breadth of approaches taken It will be core reading for students studying scientific research methods in geography environmental studies and related disciplines such as planning and earth science

Skeletal Biology of the Ancient Rapanui (Easter Islanders) Vincent H. Stefan, George W. Gill, 2016-01-07 A succinct volume presenting current views of Rapanui prehistory utilising biological evidence to modify existing archaeological and cultural anthropological preconceptions

Monthly Catalog of United States Government Publications United States. Superintendent of Documents, 1971 February issue includes Appendix entitled Directory of United States Government periodicals and subscription publications September issue includes List of depository libraries June and December issues include semiannual index

Research on Educational Innovations Arthur K. Ellis, 2014-01-09 The fourth edition of this highly praised book includes coverage of evidence based education and No Child Left Behind Like the previous editions it offers authoritative and balanced overviews to help you make distinctions between innovative programs backed up by sound research support and faddish ideas which lack a research base

Navy Medicine, 1987-03

Biology John Moore, 2004-08 Teacher Manual for Biology A Search for Order in Complexity

All Hands, 1974

Ecotourism Development Soehartini Sekartjajarini, 1997

The Fog Island Argument Thorbjørn Mann, 2007-06-25 The book explores two issues about design The first evaluation of arguments used in discussions about design planning policy proposals a subject neglected by traditional logic presents proposals for their systematic assessment The second is based on the insight that design arguments contain premises spanning the entire range of types of human knowledge whose validation draws on all approaches to human inquiry including but not limited to scientific method A general education course using

exposure to design tasks therefore would provide students with a better framework for exploring and understanding all these inquiry forms and how they relate to one another

Department of the Interior and Related Agencies Appropriations for 2005 United States. Congress. House. Committee on Appropriations. Subcommittee on Department of the Interior and Related Agencies, 2004

Department of the Interior and Related Agencies Appropriations for 2005: National Endowment for the Arts, National Endowment for the Humanities United States. Congress. House. Committee on Appropriations. Subcommittee on Department of the Interior and Related Agencies, 2004

A Guide to the Anolis Lizards (Anoles) of Mainland Central and South America Steven Poe, 2025-09-09 An authoritative treatment of the diverse and beautiful anole lizards of mainland Central and South America Anoles are highly visible and aesthetically pleasing lizards that are abundant throughout Central and South America The subjects of countless evolutionary and ecological studies that have advanced our understanding of basic principles in biology these colorful reptiles are notoriously difficult to identify and species names are often confusing and inconsistent A Guide to the Anolis Lizards Anoles of Mainland Central and South America is the first book to enable the identification of all known species of anole in the region while establishing baseline knowledge for further research Drawing on the latest findings this comprehensive field companion and taxonomic reference is the ultimate guide to these extraordinary lizards Provides the first stable taxonomy of mainland anoles while aiding field identification of these marvelous neotropical reptiles Features hundreds of stunning photos depicting most species including several species never before photographed Describes the key identification features and natural history of over 200 species of mainland anoles Facilitates scientific research on evolution ecology and species discovery An ideal travel companion for ecotourists and other visitors to Central and South America Accompanied by an online identification key

Human Rights, State Compliance, and Social Change Ryan Goodman, Thomas Pegrum, 2011-11-14 National Human Rights Institutions NHRIs human rights commissions and ombudsmen have gained recognition as a possible missing link in the transmission and implementation of international human rights norms at the domestic level They are also increasingly accepted as important participants in global and regional forums where international norms are produced By collecting innovative work from experts spanning international law political science sociology and human rights practice this book critically examines the significance of this relatively new class of organizations It focuses in particular on the prospects of these institutions to effectuate state compliance and social change Consideration is given to the role of NHRIs in delegitimizing though sometimes legitimizing governments poor human rights records and in mobilizing though sometimes demobilizing civil society actors The volume underscores the broader implications of such cross cutting research for scholarship and practice in the fields of human rights and global affairs in general

Mental Hygiene Bulletin Frankwood Earl Williams, 1928

How Science Points to God Gerard Verschuuren, 2020-07-16 This book scans science and its findings for pointers to God More than any other book on this issue it scans a wide range of scientific fields astronomy physics genetics biology neuroscience behavioral science and

semantics

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