

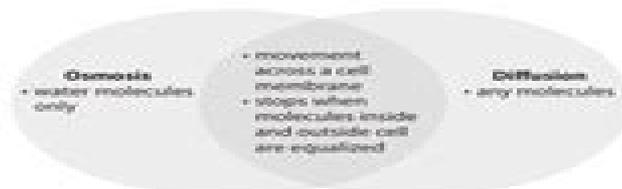
Answer Key

Unit 4 Animals: Structure and Function

Unit Preparation Questions (Assessing Readiness)

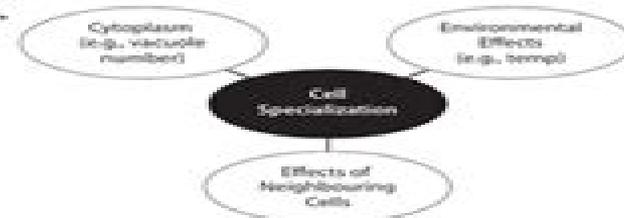
(Student textbook pages 396–9)

1. absorption, digestion, respiration, biosynthesis, excretion, egestion, secretion, movement, irritability, homeostasis, and reproduction
2. c
3. Students may suggest osmosis or diffusion. Some students may also suggest active transport (endocytosis, exocytosis). All of these answers are acceptable.
4. d
5. $6\text{CO}_2 + 6\text{H}_2\text{O}$
6. A is the cell membrane, which separates the inside of the cell from the environment within the body, and controls the flow of materials into and out of the cell. B is the cytoplasm, which includes the cytosol, organelles, and other life-supporting materials. C is a mitochondrion, from which energy is released from glucose to fuel cell activities.
7. c
8. a. Both processes move molecules across the cell membrane.
b. Osmosis is the process whereby water moves through the cell membrane so that the numbers of water molecules on the inside and outside of a cell are the same. Diffusion is the movement of molecules from areas where there are higher concentrations of molecules to areas where there are lower concentrations of molecules.
Sample answer:



9. Sweating is an example of osmosis. The gas exchange in our lungs is an example of diffusion.
10. a. A sperm cell requires the most food energy, because the sperm tail moves back and forth like a whip.
b. Skin cells have the least number of mitochondria of the three types because they require the least amount of energy. Skin cell functions do not include movement, whereas muscle cells must provide energy for muscles to contract and relax.
11. c
12. In multicellular organisms, cell division is needed for tissue and organ growth, and to repair and replace cells in the organism.
13. Answers should include three of: blood cells, skin cells, muscle cell, nerve cell, bone cell

14.



15. a. D
b. B
c. C
d. A
16. e
17. b
18. a
19. b
20. a. and b.

Sample answer:



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Larry Booher



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Prentice-Hall Biology, 1986 *The New Answers Book Volume 2* Ken Ham, 2008-05-01 What happens when you have more hot questions on the Bible and creationism than you can answer in one book You create a second volume *The New Answers Book 2* explores over 30 exciting and faith affirming topics including The fall of Lucifer and the origin of evil When does life begin and why does it matter Is evolution a religion and why should I care Archaeology Egyptian Chronology and the great flood Could early biblical figures like Noah really live to over 900 years of age What was the Star of Bethlehem and how did the wise men follow it The Evolutionization of our culture including intelligent design gay marriage Hollywood movies and more Explore these and other topics answered biblically and logically in this book from the world's largest apologetics ministry Answers in Genesis Contributors include Ken Ham Dr Andrew Snelling Dr Jason Lisle Dr Elizabeth Mitchell Dr Danny Faulkner Mike Riddle and more Origins Larry Booher, 2020-07-07 *Origins Speak to the Earth* is an anthology of scientific evidence supporting a creation global flood young earth worldview It is written primarily for students as an alternative to the theory of evolution God himself formed the earth and made it he hath established it he did not create it a waste place he created it not in vain he formed it to be inhabited Isaiah 45 18 **Prentice Hall Biology** Kenneth Raymond Miller, Joseph S. Levine, Prentice-Hall, Inc, 2002 Individual units to coincide with chapters of textbook Includes answer key **Biology** Kenneth Raymond Miller, Joseph S. Levine, Pearson/Prentice Hall, Discovery Education (Firm), 2008 *Cumulated Index to the Books*, 1966 **Improving Reading in Every Class** Ellen Lamar Thomas, H. Alan Robinson, 1982 The second edition of *Race and Ethnicity The United States and the World* continues its legacy as an introductory survey text covering the basic concepts and research of theoretical issues and empirical studies of race and ethnicity in the U S and throughout the world Through state of the art chapters Dr Scupin introduces the concepts of race the fallacies of scientific racism and theoretical perspectives on ethnicity followed by fourteen chapters that detail the empirical findings of anthropologists on race and ethnicity in the U S and the world Note MySearchLab does not come automatically packaged with this text To purchase MySearchLab please visit www.mysearchlab.com or you can purchase a valuepack of the text MySearchLab at no additional cost *New Scientist*, 1969 **The British Library General Catalogue of Printed Books 1976 to 1982** British Library, 1983 **New Technical Books** New York Public Library, 1973 **American Book Publishing Record**, 1995 Catalogue of Title-entries of Books and Other Articles Entered in the Office of the Librarian of Congress, at Washington, Under the Copyright Law ... Wherein the Copyright Has Been Completed by the Deposit of Two Copies in the Office Library of Congress. Copyright Office, 1978 **The United States Catalog**, 1928 *Books and Pamphlets, Including Serials and Contributions to Periodicals* Library of Congress. Copyright Office, 1978 Paperbacks in Print, 1980 **The United States Catalog** Eleanor E. Hawkins, 1921 **Bookbuyers' Reference Book**, 1993 **The British National Bibliography** Arthur James Wells, 1979 The United States Catalog Supplement, January

1918-June 1921 Eleanor E. Hawkins, 1921
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The United States Catalog; Books in Print January 1, 1912 Marion Effie

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What is the change in atomic number after the alpha decay? It decreases by 2. b. ... answer the following questions.

Nuclear ... 25.2 Nuclear Transformations | Lecture notes Chemistry These nuclei decay by turning a neutron into a proton to emit a beta particle (an electron) from the nucleus. This process is known as beta emission. It ... 60 s - 1 min

SECTION 25.2 NUCLEAR TRANSFORMATIONS. 1. Write a nuclear equation for the following radioactive processes. a. alpha decay of francium-208 $^{208}\text{Fr} \rightarrow \text{b} \dots$

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