

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. 6CO_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:



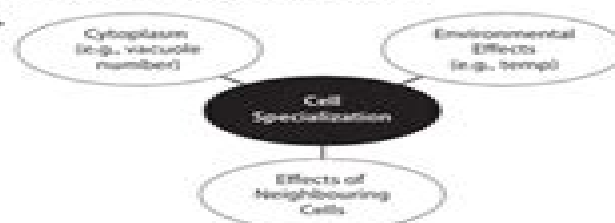
9. Sweating is an example of osmosis. The gas exchange in our lungs is an example of diffusion.
10. a. A sperm cell requires the most food energy, because the sperm tail moves back and forth like a whip.
b. Skin cells have the least number of mitochondria of the three types because they require the least 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. c

17. b

18. a

19. b

20. a. and b.

Sample answer:



Prentice Hall Biology Workbook Answers Wordwise

**Joseph S. Levine, Kenneth Raymond
Miller, Pearson/Prentice Hall, Discovery
Education (Firm)**



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The Virginia Journal of Education ,1958 Virginia Journal of Education ,1958 *Biology: Exploring Life* Neil Campbell,Brad Williamson,Robin Heyden,2003-06-30 Prentice Hall Biology Joseph S. Levine,Kenneth Raymond Miller,Pearson/Prentice Hall,Discovery Education (Firm),2008 **Prentice-Hall Biology** ,1986 **Biology Workbook Answers** Lonsdale Revision Guides,2008-01 Biology Kenneth Miller,Joseph Levine, **Biology** Kenneth Miller,Joseph Levine, **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 Workbook ,1992 **Miller and Levine Biology** Prentice Hall (School Division), **Biology** Kenneth R. Miller,Joseph S. Levine,2004-11-01 *Prentice Hall Biology* Kenneth R. Miller,Joseph S. Levine,2004-12-15 **Biology Workbook** ,1994 Biology Workbook ,1992 *General Biology Workbook* Rue Educational Publishers, Incorporated,2007-01-01 **Model Answers Senior Biology 1** Richard Allan,2009 **Prentice Hall Miller Levine Biology Standardized Test Preparation Workbook New York 2006c** ,2005-04 Authors Kenneth Miller and Joseph Levine continue to set the standard for clear accessible writing and up to date content that engages student interest Prentice Hall Biology utilizes a student friendly approach that provides a powerful framework for connecting the key concepts a biology Students explore concepts through engaging narrative frequent use of analogies familiar examples and clear and instructional graphics Whether using the text alone or in tandem with exceptional ancillaries and technology teachers can meet the needs of every student at every learning level **Biology** Neil A. Campbell,2003 *Biology* ,2006

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