

ACTIVITY ANSWER KEY

Chapter 1, Section 1

Check your answers from the Answer Key. Answers separated by commas may be in any order. Answers separated by semicolons must be in stated order. Correct all errors, then complete your next goal.



Lesson 1: A Look At Life

The Study of Biology

1. (a) True
2. (b) False
3. (b) False
4. (d) neon
5. hydrogen, carbon, oxygen, nitrogen, phosphorus, sulfur
6. elements
7. (c) the breath of life
8. (a) True
9. (a) cell
10. (b) biology
11. DNA
12. *"There is no part of life that does not contain its lessons. If you are alive, there are lessons to be learned."*



Lesson 2: Scientific Laws

The Scientific Method

1. scientific method
2. (c) an assumption made to test and prove a logical conclusion
3. (a) test evidence
4. scientific law
5. "What is the evidence?"
6. (c) wait to accept a theory until it withstands the test of time
7. (a) products accepted without thorough testing
8. (b) was prescribed without thorough testing
9. (a) True

10. (c) human germs are more easily transmitted to humans
11. (c) vigorously wash their hands in water and chlorinated lime prior to examining living patients
12. (c) They refused to believe that infections could result from invisible things.
13. (b) existence of God
14. (c) A person's reaction to something
15. (a) True
16. moral
17. Galileo Galilei
18. (d) all objects fall at the same speed regardless of weight
19. (b) False
20. *"Man will occasionally stumble over the truth but usually manages to pick himself up, walk over or around it and carry on."*



Lesson 3: Discoveries

Early History of Science

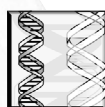
1. (b) their knowledge of astronomy and architectural engineering
2. (d) based largely on superstition
3. Earth
4. (b) False
5. (b) phlogiston
6. oxygen
7. (b) False
8. (d) many important discoveries
9. (a) accept the teachings of earlier scholars

10. (c) God established the universe and put certain laws into existence.
11. (d) Roger Bacon
12. (b) faithfully accept traditional dogmas
13. (a) True
14. Law of Gravitation
15. (a) biblical concepts
16. (e) Antoni van Leeuwenhoek
17. (a) Robert Hooke
18. (b) Andreas Vesalius
19. (g) William Harvey
20. (f) John Ray
21. (h) Carolus Linnaeus
22. (c) Marcello Malpighi
23. (d) Ulisse Aldrovandi
24. Charles Darwin
25. *"In questions of science, the authority of a thousand is not worth the humble reasoning of a single individual."*
15. (d) life is a competitive struggle to survive
16. (a) True
17. common ancestor
18. (a) True
19. (b) Darwin's theory has been modified
20. (d) all of the above
21. *"...There is more evidence to suggest an abrupt arrival of man rather than a gradual process of evolving..."*



Lesson 4: Theories
Darwin & the Theory of Evolution

1. evolution
2. (c) All species share a common ancestor.
3. (a) True
4. (a) sparked a rapid growth in biological research
5. England
6. (a) Cambridge University to become a clergyman
7. (c) a student of nature
8. Alfred Russel Wallace
9. (a) fish
10. "the book that shook the world"
11. Hitler
12. change
13. (b) False
14. (d) all of the above
1. non-living
2. (a) True
3. (c) orderly
4. d some cats
5. b octopuses
6. c archerfish
7. a some insects
8. e peregrine falcons
9. (d) automatic ultraviolet protection
10. (a) True
11. (c) absurd in the highest possible degree
12. take
13. (d) all of the above
14. X (a) It lives in waters near Oahu, Hawaii.
____ (b) It uses its ventral fin as a lure for other fish.
X (c) Its dorsal fin appears as a separate, smaller fish.
____ (d) It is destroyed when another fish approaches the lure.
15. (c) Within the brains of these birds is the inherited knowledge of how to identify latitude, longitude, and direction by the stars.
16. (a) True



Lesson 5: DNA
Features of Life

17. X (a) The Bull's Horn Acacia tree is inhabited by a species of ferocious stinging ants.
- ____ (b) Small bumps on the Bull's Horn Acacia tree provide shelter for ants.
- ____ (c) Ants living in the Bull's Horn Acacia tree are harmful to the health of the tree.
- X (d) Ants living in the Bull's Horn Acacia tree help to provide the tree with plenty of sunlight and space
- X (e) Without ants inhabiting the Bull's Horn Acacia tree, the tree would live for only two to fifteen months.
18. (a) True
19. DNA
20. inheritance (or heredity)
21. (b) DNA is located in the cell cytoplasm.
22. highly ordered and complex
23. take from their environment
24. actively to their environment
25. adapted to their environment
26. offspring of like kind
27. segregated within the organism and passed from each organism to its offspring
28. *"Chance favors the prepared mind."*



Ask for your QUIZ over Section 1.
Reminder: Students who score
85% or higher on the three section
quizzes may be exempt from the
chapter test!