

Answer Key

Unit 3 Evolution

Unit Preparation Questions (Assessing Readiness)

(Student textbook pages 290–3)

1. c
2. a
3. The major steps followed during a scientific inquiry are: making observations, asking questions, forming a hypothesis, making a prediction, performing an experiment/investigation, analyzing data, drawing a conclusion, and supporting or rejecting/revising the hypothesis.
4. a
5. a. Repeat the experiment several times.
b. Revise your hypothesis.
6. c
7. c
8. a
9. a true; b true; c false; Meiosis leads to four genetically different daughter cells. d false; Meiosis is important for generating genetic variation among the daughter cells and each cell will have half the number of chromosomes. e true
10. c
11. c
12. The original source of all new alleles is genetic mutation.
13. b
14. Black with a long tail
15. Because the allele for dimples is dominant, a dimpled adult may be heterozygous—carrying the non-dimpled allele. If both parents carry the recessive allele, they have a 25% chance of having a child with no dimples.

16. Comparison of Genotype and Phenotype

Term	Description	Example
Genotype	The combination of alleles in an individual organism	The combination of alleles for any given trait, such as Ss or AaBb
Phenotype	The outward expression of an organism's genotype; an organism's phenotype is its physical and physiological traits	A physical characteristic, such as pea shape; a physiological characteristic, such as sickle cell anemia; or a behavioural characteristic, such as territorial behaviour

17. Mendel's discovery of the allele is so important because the laws that Mendel developed through his work on pea plants formed the foundations of our modern theory of inheritance and his discovery explained the mechanism underlying evolution and natural selection.
18. c
19. a
20. a
21. Answers may include predators, food availability, competition, weather factors, and disease.

22. Comparison of Biotic and Abiotic Factors

Term	Description	Example
Biotic factor	Living features of an ecosystem	Plants, animals, micro-organisms
Abiotic factor	Non-living features of an ecosystem	Water, rocks

23. a. The carrying capacity
b. The carrying capacity is the point at which the environment supports the maximum population size. Growth slows because resources become limited. For example, if a species needs to nest in a particular habitat, the environment reaches its carrying capacity for that species once all the required nesting habitat is occupied.
24. b

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1. Understanding the eBook Unit 3 Evolution Answers
 - The Rise of Digital Reading Unit 3 Evolution Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Unit 3 Evolution Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Unit 3 Evolution Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Unit 3 Evolution Answers
 - Personalized Recommendations
 - Unit 3 Evolution Answers User Reviews and Ratings
 - Unit 3 Evolution Answers and Bestseller Lists
5. Accessing Unit 3 Evolution Answers Free and Paid eBooks
 - Unit 3 Evolution Answers Public Domain eBooks

- Unit 3 Evolution Answers eBook Subscription Services
- Unit 3 Evolution Answers Budget-Friendly Options
- 6. Navigating Unit 3 Evolution Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Unit 3 Evolution Answers Compatibility with Devices
 - Unit 3 Evolution Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Unit 3 Evolution Answers
 - Highlighting and Note-Taking Unit 3 Evolution Answers
 - Interactive Elements Unit 3 Evolution Answers
- 8. Staying Engaged with Unit 3 Evolution Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Unit 3 Evolution Answers
- 9. Balancing eBooks and Physical Books Unit 3 Evolution Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Unit 3 Evolution Answers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Unit 3 Evolution Answers
 - Setting Reading Goals Unit 3 Evolution Answers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Unit 3 Evolution Answers
 - Fact-Checking eBook Content of Unit 3 Evolution Answers
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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