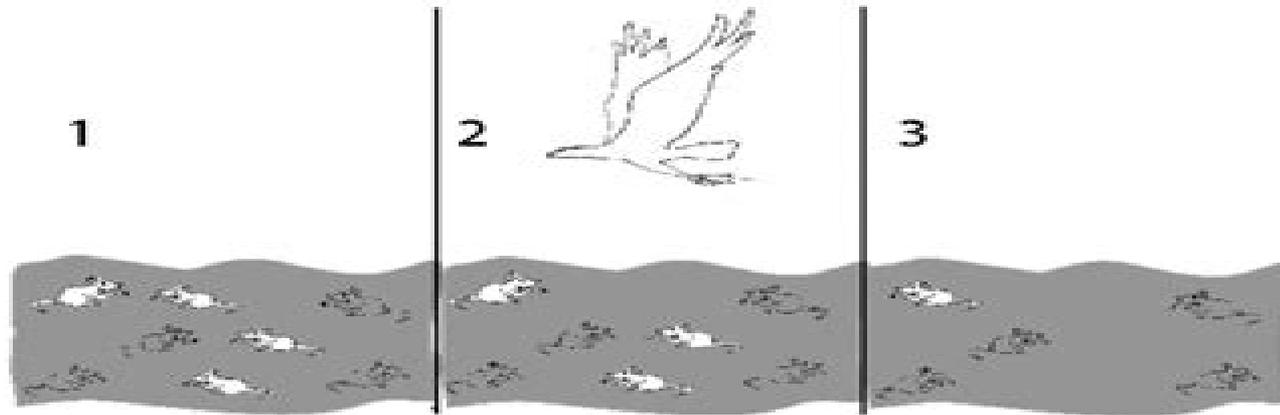


# Evolution by Natural Selection

Describe what is happening in figures 1-3. Is the population of mice different in figure 3 than in figure 1? Explain why. **YES: THERE ARE MORE BROWN MICE IN FIGURE 3 THAN IN FIGURE 1.**



Living things that are well adapted to their environment survive and reproduce. Those that are not well adapted don't survive and reproduce. An **adaptation** is any characteristic that **increases fitness**, which is **defined as the ability to survive and reproduce**. What characteristic of the mice is an adaptation that increased their fitness?

The table below gives descriptions of four female mice that live in a beach area, which is mostly tan sand with scattered plants. According to the definition given for fitness, which mouse would biologists consider the fittest? Explain why this mouse would be the fittest.

Color of Mouse Fur	Black	Tan	Tan and Black	Cream
Age at Death	2 months	8 months	4 months	2 months
# pups produced by each female	0	11	3	0
Running Speed	8 cm/sec.	6 cm/sec.	7 cm/sec.	5 cm/sec.

**FITNESS BY DEFINITION IS THE ABILITY TO SURVIVE, AND GENERATE OFFSPRING THAT WILL REACH SEXUAL MATURITY AND REPRODUCE AGAIN SO, THE FITTEST MOUSE IS THE TAN MOUSE BECAUSE IT LIVED THE LONGEST, AND PRODUCED THE LARGEST SIZE OFFSPRING.**

If a mouse's fur color is generally similar to its mother's color, what color fur would be most common among the pups?

**TAN COLOR.**

A more complete definition of fitness is the ability to survive and produce offspring who can also survive and reproduce. Below are descriptions of four male lions. According to this definition of fitness, which lion would biologists consider the "fittest"? Explain why. **TYRONE IS THE FITTEST LION BECAUSE IN THE END, IT GENERATED THE LARGEST NUMBER OF CUBS THAT SURVIVED TO ADULTHOOD (AND THEREFORE WERE ABLE TO REPRODUCE)**

Lion Name	George	Dwayne	Spot	Tyrone
Age at death	13 years	16 years	12 years	10 years
# cubs fathered	19	25	20	20
# cubs surviving to adulthood	15	14	14	19
Size	10 feet	8.5 feet	9 feet	9 feet

Suppose that Tyrone had genes that he passed on to his cubs that helped his cubs to resist infections, so they were more likely to survive to adulthood. These genes would be more common in the next generation, since more of the cubs with these genes would survive to reproduce.

# Evolution And Natural Selection Answer Key

**M Lipman**



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## **Table of Contents Evolution And Natural Selection Answer Key**

1. Understanding the eBook Evolution And Natural Selection Answer Key
  - The Rise of Digital Reading Evolution And Natural Selection Answer Key
  - Advantages of eBooks Over Traditional Books
2. Identifying Evolution And Natural Selection Answer Key
  - 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 Evolution And Natural Selection Answer Key
  - User-Friendly Interface
4. Exploring eBook Recommendations from Evolution And Natural Selection Answer Key
  - Personalized Recommendations
  - Evolution And Natural Selection Answer Key User Reviews and Ratings
  - Evolution And Natural Selection Answer Key and Bestseller Lists

5. Accessing Evolution And Natural Selection Answer Key Free and Paid eBooks
  - Evolution And Natural Selection Answer Key Public Domain eBooks
  - Evolution And Natural Selection Answer Key eBook Subscription Services
  - Evolution And Natural Selection Answer Key Budget-Friendly Options
6. Navigating Evolution And Natural Selection Answer Key eBook Formats
  - ePub, PDF, MOBI, and More
  - Evolution And Natural Selection Answer Key Compatibility with Devices
  - Evolution And Natural Selection Answer Key Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Evolution And Natural Selection Answer Key
  - Highlighting and Note-Taking Evolution And Natural Selection Answer Key
  - Interactive Elements Evolution And Natural Selection Answer Key
8. Staying Engaged with Evolution And Natural Selection Answer Key
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Evolution And Natural Selection Answer Key
9. Balancing eBooks and Physical Books Evolution And Natural Selection Answer Key
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Evolution And Natural Selection Answer Key
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Evolution And Natural Selection Answer Key
  - Setting Reading Goals Evolution And Natural Selection Answer Key
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Evolution And Natural Selection Answer Key
  - Fact-Checking eBook Content of Evolution And Natural Selection Answer Key
  - 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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