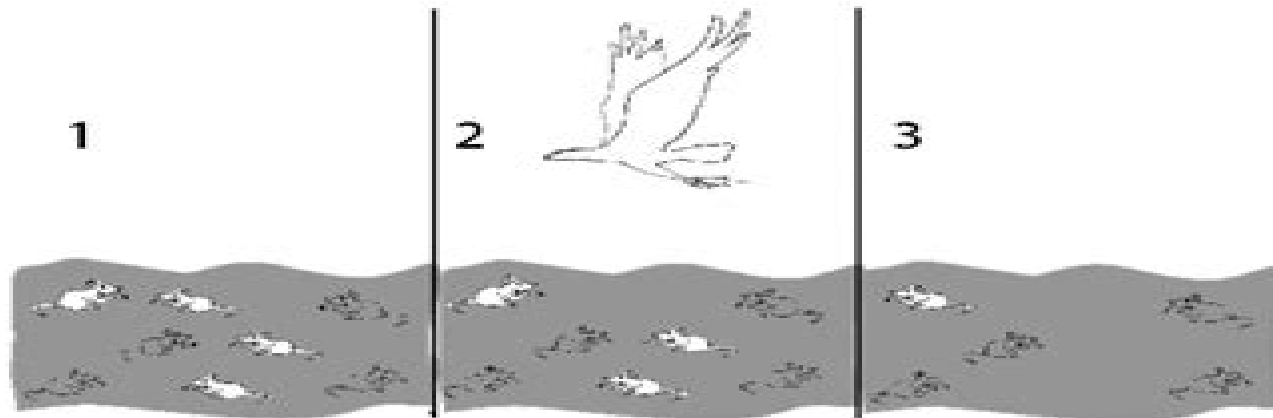


# Evolution by Natural Selection

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

**A Gutmann**



## Evolution And Natural Selection Answer Key:

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Singer, 1909      **The Galapagos Islands** Pierre Constant, 2000 The wildlife paradise of the Galapagos Islands is a showcase of evolution in action and has become a National Park dedicated to the conservation of many unique species threatened with extinction Pierre Constant provides detailed descriptions of the geology and natural history of the archipelago the visitors sites as well as the spectacular sea and land birds peculiar reptiles playful mammals and amazing marine life that make their homes there

Evolution And Natural Selection Answer Key: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels enthralling the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the engaging narratives that have enthralled audiences this year. Evolution And Natural Selection Answer Key : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Evolution And Natural Selection Answer Key : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens' "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is an exceptional and gripping novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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