

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

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