

CHAPTER 21.2: Mechanisms of Evolution

1. Why is genetic variation important to evolution?

2. How does each of the following break Hardy-Weinberg assumptions?

a. mutation: _____

b. gene flow: _____

c. genetic drift: _____

d. nonrandom mating: _____

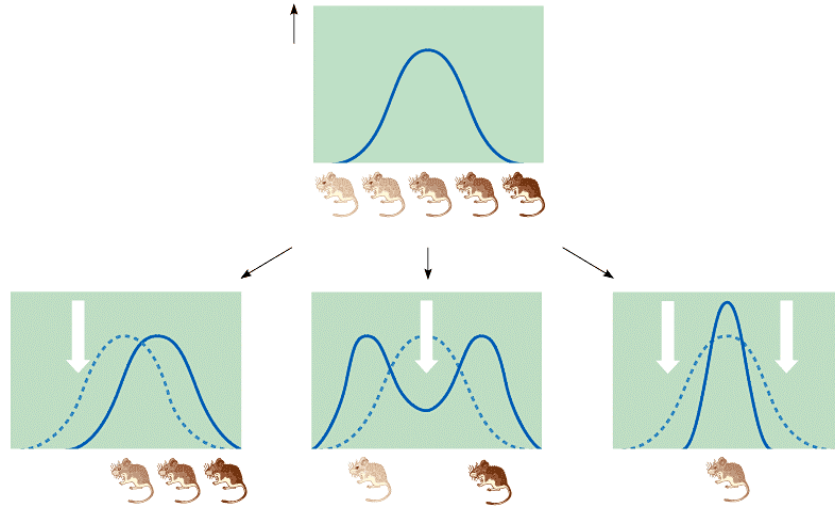
3. How is each an example of genetic drift?

a. Founder Effect: _____

b. Bottleneck Effect: _____

4. Define fitness (as it is used in evolutionary biology).

5. Distinguish between the three types of selection illustrated in these graphs of the distribution of coat color in mice.



6. Describe two examples of documented cases of selection in natural populations which have resulted in evolutionary change of a population.

a. _____

b. _____
