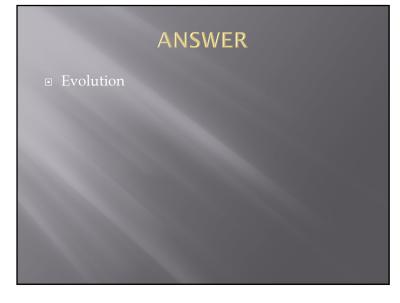


• A change of an organism over time is also called





### Question

■ Any variation that makes an organism better suited to its environment so it can survive is called a what?





- James Hutton's and Charles Lyell's work suggests that
- A. Earth is many millions of years old
- **B**. Earth is several thousands years old
- C. All fossils were formed in the last 1000 years
- D. All rock on Earth contain fossils

### ANSWER

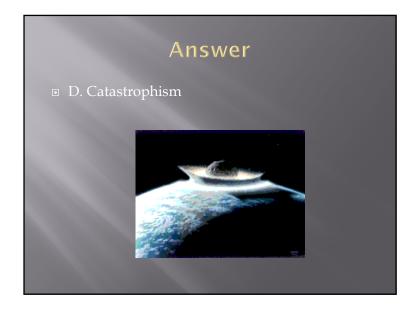
• A. Earth is many millions of years old

# Question

 The Geological Theory that states the Earth's surface was created as a result of sudden spectacular events is called:

- A. Uniformitarianism
- B. Gradualism
- C. Evolution
- D. Catastrophism

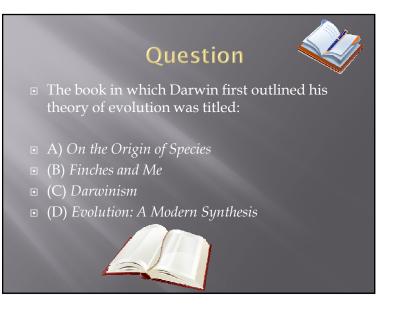


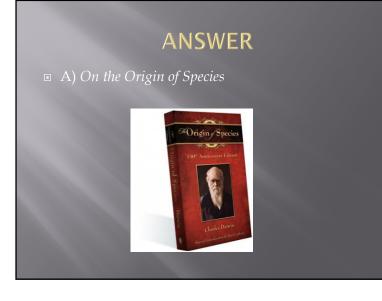


- Darwin's voyage on the H.M.S. \_\_\_\_\_ led him to propose a revolutionary hypothesis about life.
- A. Collie
- B. Cheetah
- C. Beagle
- D. Lion



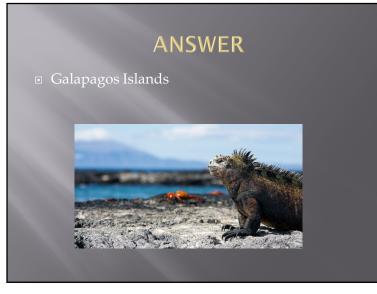






What is the names of the Islands where Darwin observed differences in beaks in finches?

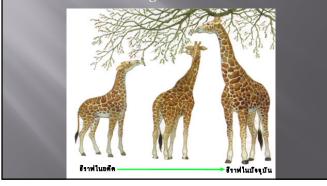




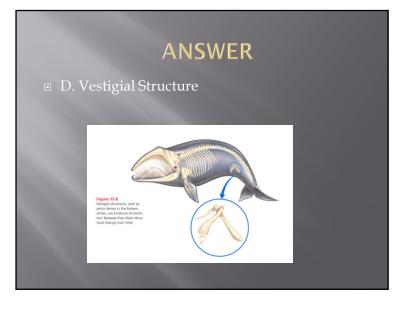
- Which is a major concept included in Lamarck's theory of evolution?
- A. Change is the result of survival of the fittest
- B. Body structure can change according to the actions of the organism.
- C. Population size decrease the rate of evolution.
- D. Artificial selection is the basis for evolution.



■ B. Body structure can change according to the actions of the organism.

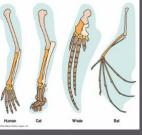


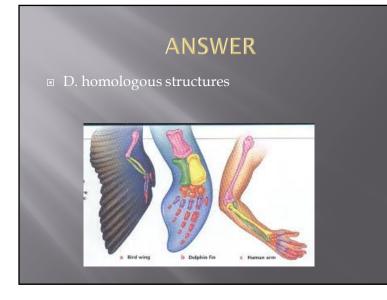
# Question The human appendix is an example of A. Artificial selection B. Acquired characteristics C. Homologous Structure D. Vestigial Structure



# Question The image illustrates what evolutionary concept?

- A. embryological similarities
- B. variation among species
- C. vestigial structures
- D. homologous structures

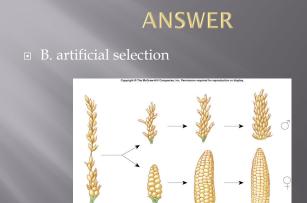






- C. sexual selection
- D. acquired selection

- Walruses live in the Arctic and have a thick fat layer. The ancestors of modern-day walruses might not have had a thick layer of fat. Over time, the walruses have changed. According to evolution by natural selection, what is the MOST likely reason for such a change?
- A. The walruses wanted to adapt to the cold climate, so they learned to grow thicker layers of fat.
- B. The walruses inherited a thicker layer of fat directly from their parents
- C. The walruses that had thicker fat layers were more adapted to survive and reproduce.
- D. Individual walruses mutated.



Intermediates

Modern corn

\_\_\_\_ Teosinte



• C. The walruses that had thicker fat layers were more adapted to survive and reproduce.



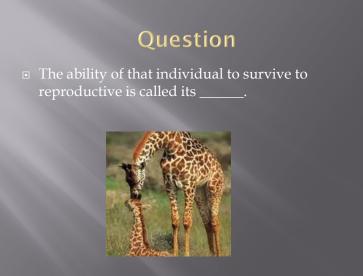
### Question

- Today, the term <u>species</u> is defined as:
- A. A grouping of morphologically similar organisms
- B. A grouping of organisms that do not interbreed
- C. A group of populations that can interbreed to produce viable offspring
- D. A group of populations that live in the same area

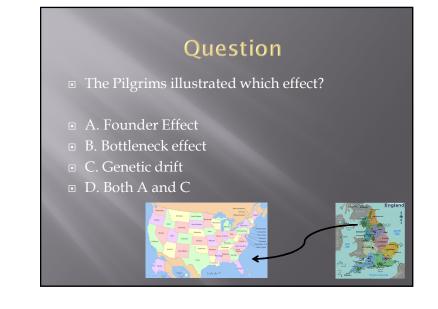
### ANSWER

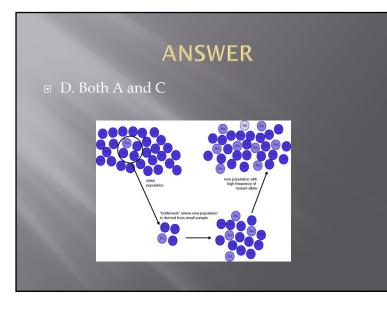
• C. A group of populations that can interbreed to produce viable offspring

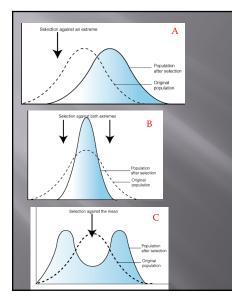












What type of distribution is each graph showing?

Stabilizing Selection Disruptive Selection Directional Selection

• A. Directional

- **B**. Stabilizing
- C. Disruptive

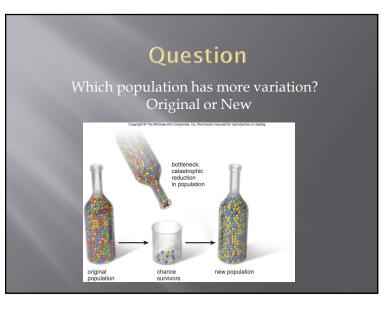
### Question

- GENETIC DRIFT is the changes in allele frequency due to chance alone.
- What are two causes of genetic drift?

### ANSWER

- Natural Disasters
- Ex: Earthquakes, floods, overhunting



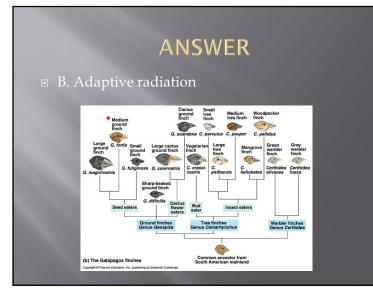






### Question

- The creation of several new species from a single parent species is called:
- A. Balanced polymorphism
- B. Adaptive radiation
- C. Inheritance of acquired traits
- D. Stabilizing selection



- The economist Thomas Malthus suggested that
- A. In the human population, people die faster than babies are born.
- B. There would soon be insufficient food for the growing human population.
- □ C. In the 1700s, England needed more housing.
- D. The majority of a species' offspring die.

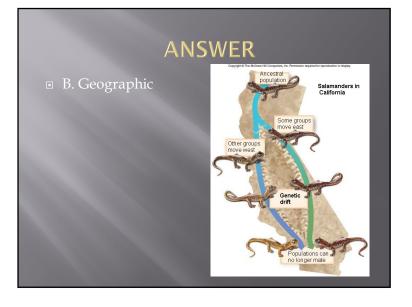
B. There would soon be insufficient food for the growing human population.



### Question

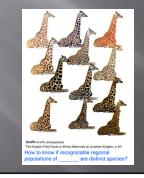
- When great distance or a physical barrier prevents to populations from interbreeding, they are experiencing what kind of reproductive isolation?
- A. Gametic
- **B**. Geographic
- C. Temporal
- D. Behavioral

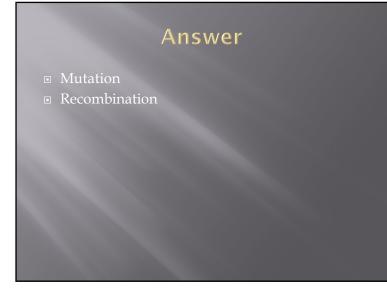




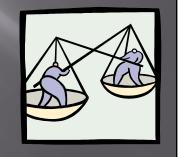
### Question

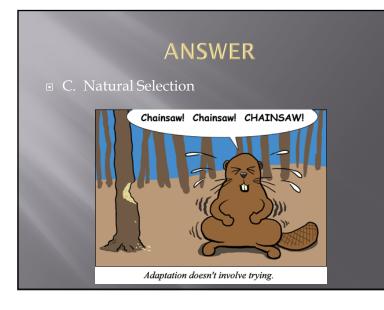
What is one sources that create genetic variations among a population?

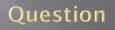




- Which of the following is NOT a condition of Hardy-Weinberg equilibrium?
- A. No mutation
- B. Large population
- C. Natural Selection
- D. Random mating







Predict what would happen over time to a population of bacteria that has been exposed to a NEW antibotic?

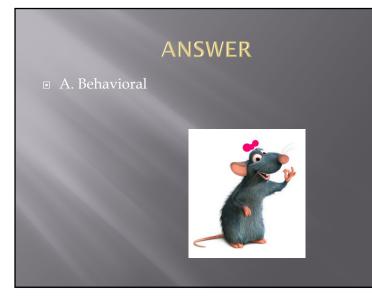


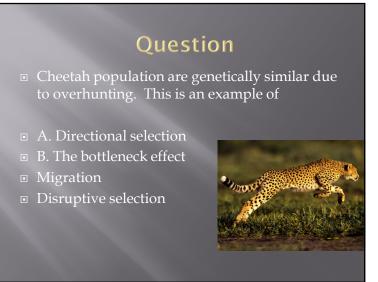
• Over many generations, the bacteria would become resistant to the antibiotic.

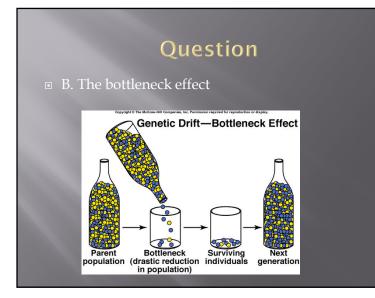


- Which type of reproductive isolation is the image showing below?
- A. Behavioral
- B. Temporal
- □ C. Geographic
- D. Convergent









- Female guppies tend to choose brightly colored mates. Over time, the population of guppies become more colorful. This is an example of:
- A. Kin Selection
- B. Sexual Selection
- C. Natural Selection
- D. Gamete Incompatibility

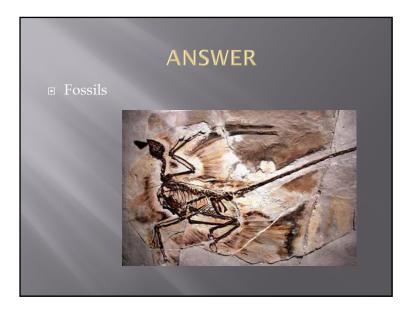




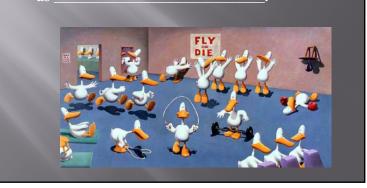
### Question

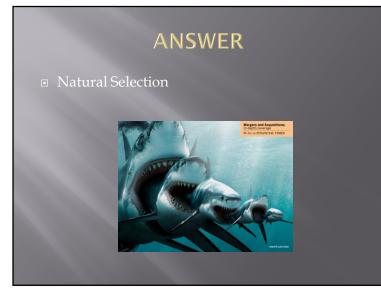
In addition to observing living organisms, Darwin studied the preserved remains of ancient organisms called \_\_\_\_\_.





**Darwin referred to the "survival of the fittest"** 





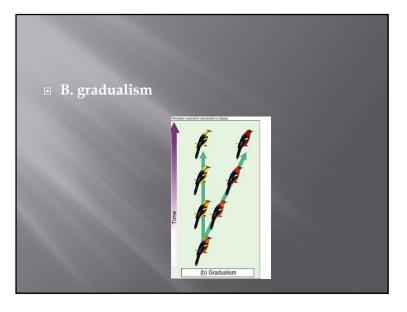
- The idea that each living species has descended with changes from other species over time is called:
- A. struggle for existence
- B. Descent with modification
- C. Artificial Selection
- D. Acquired traits

■ B. Descent with modification

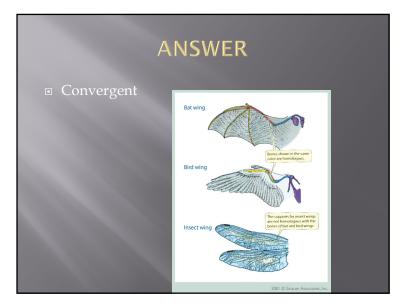


### Question

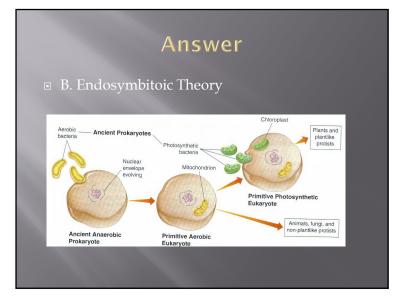
- Darwin believed in the idea that evolution happened slowly over a long period of time called \_\_\_\_\_\_
- A. punctuated equilibrium
- B. gradualism
- C. symbiosis
- **D.** mass extinction



- Whales, sharks, and penguins all have streamlined body and appendages for moving in water even though they belong in different classes of animal classes (mammals, birds, fish)
- What pattern of evolution is this?



- What theory proposes that eukaryotic cells arose from living communities formed by prokaryotic organisms?
- A. Uniformitarianism
- B. Endosymbiotic
- C. Gradualism
- D. Evolution



### Question

A technique using natural decay rate of unstable isotopes found in materials to calculate the age of materials is called \_\_\_\_\_.

