

## Evolution and classification



Class\_ Name Date



One explanation for the variety of organisms present on Earth today is that over time

- A new species have adapted to fill available niches in the environment
- evolution has caused the appearance of organisms that are similar to each other
- each niche has changed to support a certain variety of organism
- D the environment has remained unchanged, causing rapid evolution



Many scientists believe that the earliest cells on Earth were relatively simple, lacking nuclear membranes and other organized cellular structures. Over time, more complex cells developed from these simple cells. These statements describe the concept of

- A inheritance of acquired characteristics
- **B** evolution
- **c** dominance
- D use and disuse



In the early stages of development, the embryos of dogs, pigs, and humans resemble one another.

This observation suggests that these animals may have



The idea that evolution takes place at a continuous but very slow rate is known as

- A succession
- **B** artificial selection



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## **PREVIEW**



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- **B** radioactive materials
- C plant tissues
- D animal embryos



- une genetic pasis or variation
- C survival of the fittest
- **D** competition



In addition to the basic ideas of Darwin, modern evolutionary theory includes the concept that

- A recombination of genes results in
- B all acquired characteristics are inherited
- C life originally came from outer space
- D life of Earth began on land



In a population, 25% of the individuals show a certain recessive trait. According to the Hardy-Weinberg principle, the percent recessive genes for that trait in that population would be

- A 5%
- **B** 12.5%
- C 25%
- D 50%

Gg





## Evolution and classification - Answer Key



Class \_\_\_\_\_ Name Date Many scientists believe that the earliest cells One explanation for the variety of organisms on Earth were relatively simple, lacking present on Earth today is that over time nuclear membranes and other organized A new species have adapted to fill available cellular structures. Over time, more complex niches in the environment cells developed from these simple cells. evolution has caused the appearance of A B These statements describe the concept of organisms that are similar to each other A inheritance of acquired characteristics each niche has changed to support a **B** evolution certain variety of organism D the environment has remained unchanged, **c** dominance causing rapid evolution D use and disuse In the early stages of development, the The idea that evolution takes place at a 3 embryos of dogs, pigs, and humans continuous but very slow rate is known as resemble one another. A succession This observation suggests that these animals may have B artificial selection 5 A **PREVIEW** Please Sign In or Sign Up to download the printable version of this worksheet B une genetic pasis or variation **B** radioactive materials C survival of the fittest C plant tissues **D** competition D animal embryos In addition to the basic ideas of Darwin, In a population, 25% of the individuals modern evolutionary theory includes show a certain recessive trait. According the concept that to the Hardy-Weinberg principle, the percent recessive genes for that trait in A recombination of genes results in that population would be (D)A 5% B all acquired characteristics are inherited GG Gg **B** 12.5% C life originally came from outer space C 25% D life of Earth began on land D 50%