

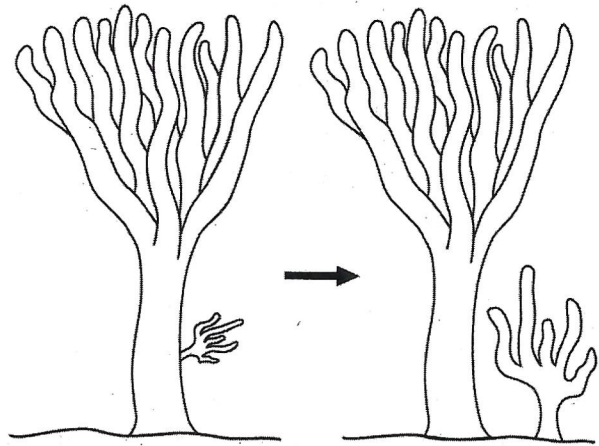
Name \_\_\_\_\_ Date \_\_\_\_\_

## Introduction to Living Things

Choose the letter of the best answer.

- All living things share common characteristics. They are made up of cells, they respond to change, reproduce, have DNA, and use energy. What is one other common characteristic of living things?
  - have fingers
  - grow and develop
  - live less than 200 years
  - breathe air through lungs
- Which of the following is an example of homeostasis?
  - A human body loses too much heat on a cold day, and hypothermia occurs.
  - A cactus stores water during wet periods, allowing it to live through dry periods.
  - A human participates in vigorous activity on a hot day and eventually suffers from dehydration.
  - A snake rests in the sun on a summer day, and its body temperature eventually becomes too hot for survival.

- The following image should be studied and used to answer the following question.



What type of reproduction is occurring in the above image? In addition, identify the specific method you observe.

- sexual reproduction, meiosis
  - reproduction is not occurring
  - asexual reproduction, budding
  - asexual reproduction, binary fission
- How do producers get the energy their bodies need to survive?
    - Producers make their own food.
    - Producers get energy through the burning of fossil fuels.
    - Producers cannot make their own food and must eat other organisms.
    - Producers get energy by breaking down the nutrients in dead organisms.
  - What are the four things that all living things need to survive?
    - water, air, food, and a place to live
    - a place to live, light, air, and mobility
    - food, water, a place to live, and family
    - light, food, sleep, and the ability to hunt

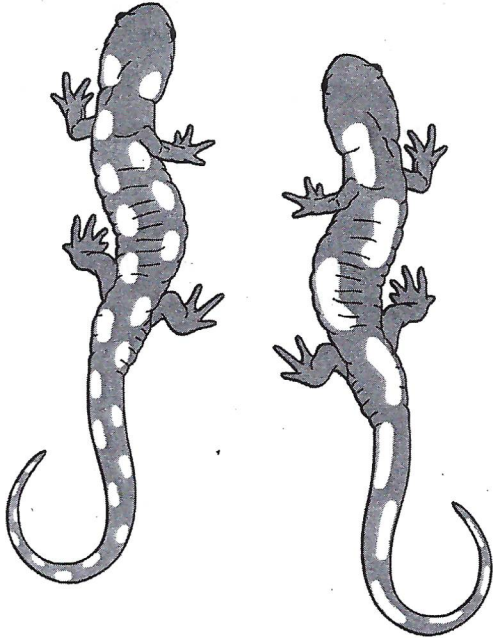
Name \_\_\_\_\_ Date \_\_\_\_\_

# Theory of Evolution by Natural Selection

## Lesson Quiz

Choose the letter of the best answer.

- Which of these scenarios is an example of natural selection?
  - Farmers crossbreed two types of cows to produce a breed of cow that has high-quality beef and can tolerate a hot climate.
  - Dogs of the same breed and having a desirable coat color are bred with one another to produce more puppies with that same coat color.
  - Giraffes with longer necks survive a dry season by eating leaves from the tops of trees. Those giraffes breed more successfully that year.
  - People kill rattlesnakes that rattle when approached by humans, but people do not kill rattlesnakes that remain silent. The quiet snakes survive and breed.
- What is evolution?
  - a group of organisms that can mate to produce fertile offspring
  - the process by which inherited traits of a population change over many generations
  - a trait that allows organisms in a population to survive and reproduce in their environment
  - the process in which individuals better adapted to their environment are more likely to survive and reproduce
- Which of these statements best describes what Charles Darwin observed on the Galápagos Islands?
  - The finch population on each island was unique.
  - The finches on the islands ate seeds and nuts but no insects.
  - The finches on the islands were the same as the finches in Ecuador.
  - The finches could produce offspring only with finches from other islands.
- A species of rodent lives in a moist forest climate. Over time, the climate becomes drier and more desert-like. Which of these adaptations would most likely improve the chances that the rodent species could survive as its environment changes?
  - having dark hair and small ears
  - living above ground in damp areas
  - being able to eat only one type of berry
  - being able to eat plants that survive in the changed environment
- The figure below shows two spotted salamanders. They are the same species of salamander, but they live in different areas.
 



Which of these terms is used to describe the difference between them?

  - variation
  - extinction
  - population
  - overpopulation