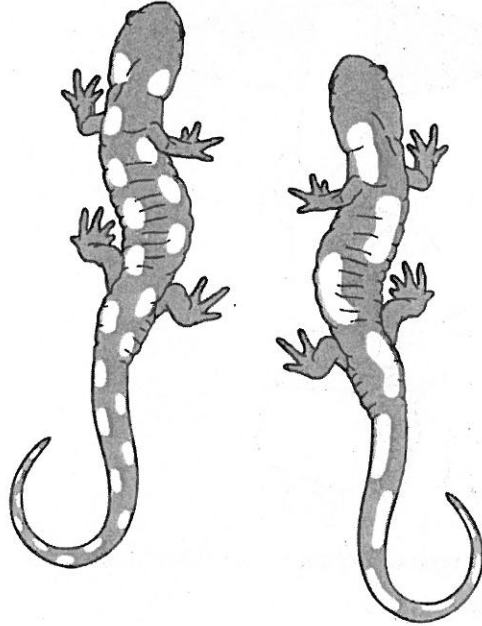


# Life over Time

Choose the letter of the best answer.

- Which of the following is a situation that could lead to the extinction of a species?
  - increased habitat
  - increased food supply
  - increased competition
  - increased population size
- Which of these answers **best** describes a fossil?
  - thick layers of rock
  - organism from which other organisms are descended
  - body of an organism that died recently but has not decomposed
  - remains of a once-living organism found in layers of rock, ice, or amber
- Which of these best describes the tiny leg bones that some whales have, which do not aid in their movement or serve any other function?
  - structures that grows and improves in function as they are used
  - structures that will become adaptations when the environment changes
  - structures that have lost all or most of their function over evolutionary time
  - structures that function at certain times of the year or under certain conditions

- The figure below shows two spotted salamanders that belong to the same species.

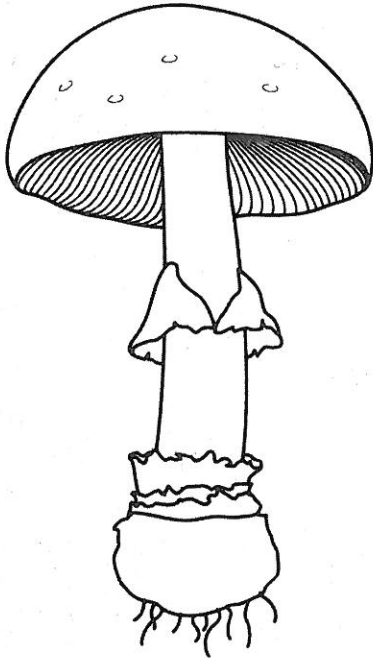


How does the concept of variation help us understand that the salamanders are members of the same species, even though they look slightly different?

- Variation explains why some organisms survive while others do not.
- Variation describes a range of physical traits among members of a species.
- Variation describes a group of organisms that live together in the same area.
- Variation explains the process by which populations gradually change over time.

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

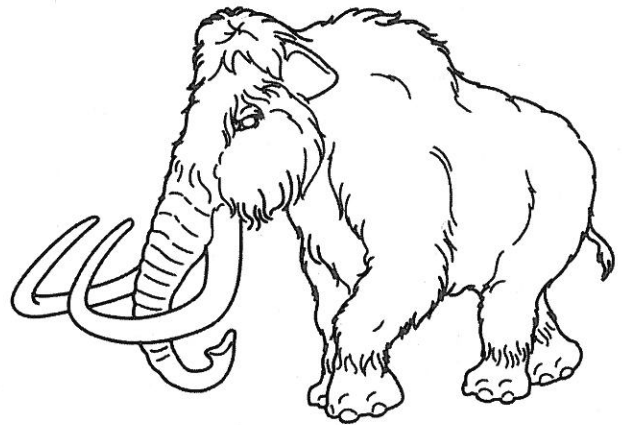
5. The following diagram shows one type of living thing.



What type of organism is shown in the above image?

- A. producer
  - B. consumer
  - C. decomposer
  - D. the diagram does not show a living thing
6. A branching diagram uses shared characteristics to classify organisms. On a branching diagram that compares the major kingdoms of Domain Eukarya, what label might appear to differentiate animals from organisms in the other kingdoms?
- A. single-celled, make own food
  - B. multicellular, make own food
  - C. multicellular, move independently
  - D. release digestive juices into surroundings
7. What is a mass extinction?
- A. the death of one member of a species
  - B. the death of every member of a species
  - C. the death of select members of a species
  - D. the death of all members of many different species

8. What is the genetic material that organisms pass on to their offspring when they reproduce?
- A. DNA
  - B. food
  - C. cells
  - D. energy
9. Linnaeus's contributions most helped develop which area of science?
- A. medicine
  - B. taxonomy
  - C. chemistry
  - D. microbiology
10. The image below shows an organism from one of the four main divisions of the geologic time scale.



The organism above lived during which major division of geologic time?

- A. Precambrian
- B. Paleozoic
- C. Mesozoic
- D. Cenozoic