

Grade: 8 Science
Benchmark #: 3.2.3

Mastery Check
8

State Language:

The student infers that the characteristics of an organism result from heredity and interactions with the environment.

Student Friendly Language:

I will infer that the characteristics of an organism result from heredity and interactions with the environment.

Concept (Students will know):

The effects of the environment on the characteristics of organisms.

Skills (Students will do):

Infer

DOK Level:

2

Big Ideas:

Both heredity and environment shape the characteristics of an organism.

Essential Questions:

What environmental conditions could affect the characteristics of an organism?

Research an organism's characteristics. Infer if the characteristics result from heredity, environment or both.

Core Materials

Supplemental Materials:

Teaching Strategies:

Mastery Check Items:

19. To pass from a parent to an offspring (daughter cell) during cell division, what must DNA do?

A. make a transgenic organism

- B. make a chromosome
- C. make a clone
- D. make a copy

20. Some diseases in humans are caused by genetic mutations. The mutated genes can then be passed from parent to child. Where does the replication of these mutated genes occur in the human cell?

- a. nucleus
- b. ribosome
- c. cell membrane
- d. endoplasmic reticulum

[Answer Key](#)