

Answer Key with Questions

Lesson Check: Structure and Support

1) Which of the following is stored in the skeletal system?

- ☐ A) potassium
- ☐ B) calcium
- ☐ C) sodium
- ☐ D) water

Correct Answer

B) calcium

2) The three types of muscle cells in the muscular system are _____, _____, and _____.

Correct Answer

cardiac muscle
skeletal muscle
smooth muscle

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3) Name the three types of skeletons.

Correct Answer

Answers may vary.

Explanation

hydrostatic skeletons, exoskeletons, endoskeletons

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4) Which of the following is NOT a function of the muscular system?

- ☐ A) movement
- ☐ B) stability
- ☐ C) temperature regulation
- ☐ D) calcium storage

Correct Answer

D) calcium storage

5) The function of the bones called the _____ is to protect the brain.

Correct Answer

skull

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6) Why are the muscles that move food through your digestive track called involuntary muscles?

Correct Answer

Answers may vary.

Explanation

You can't control them consciously.

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- 7) Describe the functions of muscles and bones. Then, develop an argument that these systems must interact to produce movement of the bones of the skeleton.

Correct Answer

Answers may vary.

Explanation

Bones support, protect, and store materials for the body. Muscles contract and relax to produce movement. Bones cannot move themselves. Therefore, they must interact with

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muscles for movement. The motion of bones is produced when attached muscles contract and relax.

8) Which of the following is NOT a type of muscle tissue?

- ☐ **A)** cardiac
- ☐ **B)** skeletal
- ☐ **C)** smooth
- ☐ **D)** striated

Correct Answer

D) striated

9) Which of the following only happens voluntarily?

- ☐ **A)** blinking
- ☐ **B)** breathing
- ☐ **C)** digestion
- ☐ **D)** pointing

Correct Answer

D) pointing

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10) Of the following, which is NOT a function of the skeletal system?

- ☐ **A)** protects interior organs
- ☐ **B)** gives shape and support to body
- ☐ **C)** stores minerals
- ☐ **D)** produces vitamin D

Correct Answer

D) produces vitamin D

Extended-Response Rubric

	Level of Understanding	Evidence of Understanding
3	Demonstrating Expected Understanding	Student response provides clear evidence of using the dimensions* to make sense of scientific phenomena and/or to design solutions to problems. Student is able to: ▪ correctly describe the functions of the muscles and bones; AND ▪ develop an argument that muscles and bones must interact to produce movement
2	Progressing toward Understanding	Student response provides partial evidence of using the dimensions* to make sense of scientific phenomena and/or to design solutions to problems. The response lacks some critical information and details or contains some errors. Student is able to: ▪ correctly describe the functions of muscles and bones BUT the argument that the two structures must interact to produce movement is not supported; OR ▪ argue that the bones and muscles need to interact to produce movement BUT does not provide a thorough and accurate description of the functions of muscles and bones
1	Beginning to Develop Understanding	Student response is incomplete or provides minimal evidence of using the dimensions* to make sense of scientific phenomena and/or to design solutions to problems.
0	Not Showing Understanding	Student does not respond or student response is inaccurate, irrelevant, or contains insufficient evidence of using the dimensions* to make sense of scientific phenomena and/or to design solutions to problems.
<i>*As outlined in the Performance Expectations (PE) of the NGSS, the three dimensions are the disciplinary core ideas (DCI), science and engineering practices (SEP), and crosscutting concepts (CCC). Note that due to the complexity of the PEs, individual assessment items may not address all three dimensions.</i>		

Scoring Notes:

Possible answers include:

Bones support, protect, and store materials for the body. Muscles contract and relax to produce movement. Bones cannot move themselves. Therefore, they must interact with muscles for movement. The motion of bones is produced when attached muscles contract and relax.