

Skills Worksheet

Concept Review

MATCHING

In the space provided, write the letter of the definition that best matches the term or phrase.

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|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| _____ 1. asthenosphere | a. the solid, outer layer of Earth that consists of the crust and the rigid upper part of the mantle |
| _____ 2. atmosphere | b. the solid, plastic layer of the mantle beneath the lithosphere; made of mantle rock that flows very slowly, which allows tectonic plates to move on top of it |
| _____ 3. lithosphere | c. the thin and solid outermost layer of Earth above the mantle |
| _____ 4. system | d. the central part of Earth below the mantle |
| _____ 5. core | e. a mixture of gases that surrounds a planet or moon |
| _____ 6. hydrosphere | f. the part of Earth where life exists; includes all of the living organisms on Earth |
| _____ 7. biosphere | g. the layer of rock between Earth's crust and core; denser than the crust |
| _____ 8. mantle | h. the portion of Earth that is water |
| _____ 9. crust | i. the mostly solid, rocky part of Earth; extends from the center of the core to the surface of the crust |
| _____ 10. geosphere | j. a set of particles or interacting components considered to be a distinct physical entity for the purpose of study |

MULTIPLE CHOICE

In the space provided, write the letter of the answer choice that best completes each statement or best answers each question.

- _____ 11. The "middle sphere," the strong, lower part of the mantle between the asthenosphere and the outer core is called the
- | | |
|----------------|----------------|
| a. biosphere. | c. geosphere. |
| b. mesosphere. | d. atmosphere. |
- _____ 12. A system in which both energy and matter are exchanged with the surroundings is called a(n)
- | | |
|-----------------|-------------------|
| a. open system. | c. closed system. |
| b. life system. | d. free system. |

Concept Review *continued*

- _____ 13. All of the following are processes through which Earth's energy and matter passes EXCEPT the
- a. phosphorus cycle.
 - b. nitrogen cycle.
 - c. oxygen cycle.
 - d. carbon cycle.
- _____ 14. What are the Earth's pole-to-pole circumference and equatorial circumference measurements?
- a. 4,000 km, 40,700 km
 - b. 7,000 km, 7,4000 km
 - c. 70,000 km, 40,700 km
 - d. 40,007 km, 40,074 km
- _____ 15. The force of attraction between any two objects depends on the masses of the objects and the distance between them, according to
- a. the law of magnetism.
 - b. Newton's law of gravitation.
 - c. the law of the magnetosphere.
 - d. the law of plasticity.
- _____ 16. Earth's shape is a(n)
- a. oblate spheroid.
 - b. oval.
 - c. perfect circle.
 - d. circular spheroid.
- _____ 17. A community of organisms and their abiotic environment is called a(n)
- a. ecological system.
 - b. life cycle.
 - c. biological system.
 - d. ecosystem.
- _____ 18. The possible source of Earth's magnetic core is
- a. Earth's ionized atmosphere.
 - b. the movement of the tides.
 - c. the liquid iron in its outer core.
 - d. friction created by rotation.
- _____ 19. What can happen to energy as it passes through an ecosystem?
- a. It can be lost.
 - b. It can be unchanged.
 - c. It can increase.
 - d. It can change form.
- _____ 20. Which factors do NOT control the balance of an ecosystem?
- a. producers
 - b. consumers
 - c. decomposers
 - d. creators