



SCIENCE

Earth and Space



TEST PACKET

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Name _____

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Test 1	SCIENCE: EARTH & SPACE Chapter 1
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Grade Level _____ Score _____

MATCH the best answer to the statement and write the corresponding letter in the blank. Each question is worth 4 points.

- | | |
|--|-------------|
| _____ 1. the most basic unit of matter | A. atom |
| _____ 2. the amount of matter in an object | B. compound |
| _____ 3. the pull of gravity on an object | C. density |
| _____ 4. the amount of space that matter occupies | D. element |
| _____ 5. how tightly packed matter is | E. mass |
| _____ 6. substance composed of only one type of atom | F. volume |
| _____ 7. substance containing two or more types of atoms bonded together | G. weight |

Carefully read each statement and circle the T (for true) or F (for false). Each question is worth 4 points.

- | | | |
|---|---|---|
| T | F | 8. There may be many variables but only one constant in a proper scientific experiment. |
| T | F | 9. A single experiment cannot provide enough evidence to support a conclusion. |
| T | F | 10. Upward movement of water through a tiny space in response to surface tension is called capillarity. |
| T | F | 11. During a short, heavy rainfall, most of the water soaks into the ground. |
| T | F | 12. If a theory has never been proven false, it is called a law. |
| T | F | 13. The water in an artesian well will automatically rise because the water is under pressure. |
| T | F | 14. Most plants grow best in soil that is neutral or slightly basic. |

CHOOSE the best answer and write the corresponding letter in the blank. Each question is worth 4 points.

- _____ 15. Most organic material is found in the layer of _?_.
a. bedrock b. subsoil c. topsoil
- _____ 16. _?_ bacteria return nitrogen to the atmosphere by converting nitrogen from nitrates into atmospheric nitrogen.
a. Denitrifying b. Nitrifying c. Nitrogen-fixing
- _____ 17. On the pH scale, a value of 7 would be considered _?_.
a. acidic b. basic c. neutral
- _____ 18. The type of soil with the smallest, most tightly packed particles is _?_.
a. clay b. sand c. silt
- _____ 19. The primary plant food elements are _?_.
a. nitrogen, oxygen, potash b. nitrogen, phosphorous, potassium c. oxygen, phosphorus, potassium
- _____ 20. The Haber process uses hydrogen gas and atmospheric nitrogen to produce _?_.
a. ammonia b. lightning c. phosphates
- _____ 21. _?_ rock blocks water from soaking further into the ground.
a. Basalt b. Impermeable c. Porous
- _____ 22. When using the scientific method, the first step is to _?_.
a. formulate a hypothesis b. gather information c. state the problem
- _____ 23. The upper surface of ground water is called the _?_.
a. aquifer b. horizon c. water table
- _____ 24. Soil color will indicate the _?_ present in the soil.
a. amount of organic material b. types of minerals c. both a and b
- _____ 25. Soil substance composed of decayed organisms' particles is called _?_.
a. humus b. loam c. silt

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