| Name | Dat | te Class |
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| | | |

Louis Pasteur

biogenesis

The Origin of Life

In your textbook, read about origins: the early ideas.

microorganisms

Use each of the terms below just once to complete the passage. vital force

| nonliving matter | S-shaped | disproved | Francesco Redi |
|-----------------------------------|--------------------|-----------------------|---|
| organisms | broth | microscope | spontaneous generation |
| spontaneously | air | | |
| Early scientists believe | ed that life arose | from (1) | through a process they called |
| (2) | In 1 | 668, the Italian phys | sician (3) conducted |
| an experiment with flies th | nat (4) | this | idea. At about the same time, biologists |
| began to use an important | new research t | ool, the (5) | . They soon discovered the |
| vast world of (6) | | . The number and d | iversity of these organisms was so great that |
| scientists were led to belie | ve once again th | at these organisms n | nust have arisen (7) |
| By the mid-1800s, howeve | er, (8) | was a | ble to disprove this hypothesis once and for |
| all. He set up an experime | ent, using flasks | with unique (9) | necks. These flasks |
| allowed (10) | , bu | t no organisms, to c | ome into contact with a broth containing |
| nutrients. If some (11) | | existed, as had | been suggested, it would be able to get into |
| the (12) | through | the open neck of th | e flask. His experiment proved that organ- |
| isms arise only from other | (13) | This | s idea, called (14), |
| is one of the cornerstones | of biology toda | y. | |
| Determine if the statem | ent is true. If i | t is not, rewrite the | e italicized part to make it true. |
| 15. Biogenesis explains ho | | | • |
| | 0 | | ed and then organized into complex molecules. |
| 17. Several billion years a | | | |