

Complete the text about the origin of the ocean waters with the most appropriate word for each gap. You will not need one word. The first one is done for you (0).

*aquatic*  
*presence*  
*migration*  
*extinct*  
*seas*

*invertebrates*  
*crust*  
***volume***  
*condensation*  
*gases*

*sedimentary*  
*dust*  
*marine*  
*fossils*

The huge (0) ***volume*** of water contained in the oceans and (1) \_\_\_\_\_ has been produced during Earth's geologic history. There is little information on the early history of Earth's waters. However, (2) \_\_\_\_\_ dated from the Precambrian some 3.3 billion years ago show that bacteria and cyanobacteria (blue-green algae) existed then, indicating the (3) \_\_\_\_\_ of water during that period. Carbonate (4) \_\_\_\_\_ rocks, obviously laid down in an (5) \_\_\_\_\_ environment, have been dated to 1 billion years ago. Also, there is fossil evidence of primitive (6) \_\_\_\_\_ algae and (7) \_\_\_\_\_ from the Ediacaran Period (635 million to 542 million years ago).

The presence of water on Earth at even earlier times is not documented by physical evidence. It has been suggested, however, that the early hydrosphere formed in response to (8) \_\_\_\_\_ from the early atmosphere. The ratios of certain chemical elements on Earth indicate that the planet formed by the accumulation of cosmic (9) \_\_\_\_\_ and was slowly warmed by radioactive and compressional heating. This heating led to the gradual separation and (10) \_\_\_\_\_ of materials to form Earth's core, mantle, and (11) \_\_\_\_\_. The early atmosphere is thought to have been highly reducing and rich in (12) \_\_\_\_\_, notably in hydrogen, and to include water vapour.