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Answer Key

What organic gas compounds could be found in early earth's atmosphere that when combined to form amino acids and proteins?

- A) CH₄
- B) H₂
- C) N₂
- D) A and B

A and C

On early earth there were only organic compounds of gasses such as Methane, Ammonia, Hydrogen, and Water Vapor in the atmosphere due to the heat of the surface. How could these gases come together to form complex compounds that could build life in early earth's atmosphere? What complex compounds would these reactions make to be able to become the building blocks of early life? How could these compounds be protected and turn into living cells such as prokaryotes?

These gases could come together with the catalysis of an electric current from the atmosphere that would give the gases enough energy to break their bonds and form new bonds to create new compounds with the compatibility of hydrogen, nitrogen, carbon, and oxygen. These compounds could come together to form one of the most important compounds amino acids which would be able to make complex proteins which are necessary to every form of life especially early life which started with single cell prokaryotes. They also could make hydrocarbons that are very important in life due to the amount of energy stored in these covalent bonds that make up these complex structures which are mainly made up of early life's large amount of hydrogen and carbon atoms. All of these compounds could be protected by protothions which can perform basic reproduction and very basic metabolism all surrounded by a membrane. These amino acids, proteins, and hydrocarbons could be protected by the protothions and in this environment could start to form RNA and DNA to form the first living prokaryote cell.

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