

# Biology: Life on Earth

**Outcome 1.1: Identify the relationship between the conditions on early Earth and the origin of organic molecules.**

The Age of the Earth:

- The approximate age of the earth is 4.5 million years.
- During the Hadean eon (4.5-3.8 billion years ago) was the formation of the Earth as it was transformed from a gaseous cloud into a solid body.

The heavier molten iron sank down to become the core, while the lighter rock rose to the surface becoming the crust. Due to the high temperatures at the centre of the Earth, and due to volcanic activity there was an emission of gases, or outgassing of volatile molecules such as water ( $\text{H}_2\text{O}$ ), methane ( $\text{CH}_4$ ), ammonia ( $\text{NH}_3$ ), hydrogen ( $\text{H}_2$ ).

The atmosphere was **anoxic** meaning it had no free oxygen. ( $\text{O}_2$ ), as all oxygen was bound within compounds such as water and carbon dioxide. This meant that there was no ozone layer ( $\text{O}_3$ ) layer, exposing the Earth's surface to ultraviolet radiation. Most of the hydrogen gas escaped into space, as happens today, whereas the other gases accumulated and remained in the atmosphere.

Amino acids → molecules that form from carbon.

Forming the first organic molecules:

- Early earth provided an environment in which the production of organic carbon containing molecules would be fairly easy.
- Energy sources that aided these reactions may have been...
  - Ultraviolet light.
  - Lightening
  - Hot Springs
  - Volcanoes
  - Meteorites.

The stages of change thought to have occurred in early earth are listed below.

- Dense clouds formed. Water and hydrated minerals.
- Meteorite impacts declined due to protective layer of the atmosphere.
- The earth cooled and the temperature fell below  $1000^\circ\text{C}$  forming a stable rocky crust.
- The release of gases from volcanoes increased air pressure in the atmosphere.
- The dissipation of heat into space cooled the Earth causing crust fragments to become numerous enough to form a first thin, solid cover.

# Preliminary Biology Dotpoint Life On Earth Answers

**Rose Arny**



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does justice to the complex nature of the subject The book s first part offers an overview of the main ideas on the origin of life as they developed from antiquity until the twentieth century The second more detailed part of the book examines contemporary theories and major debates within the origin of life scientific community Topics include Aristotle and the Greek atomists conceptions of the organism Alexander Oparin and J B S Haldane s 1920s breakthrough papers Possible life on Mars

**Biology Life on Earth Custom** Teresa Audesirk,Gerald Audesirk,2001-02-01

## Adopting the Track of Expression: An Mental Symphony within **Preliminary Biology Dotpoint Life On Earth Answers**

In a global taken by displays and the ceaseless chatter of fast interaction, the melodic beauty and psychological symphony developed by the written term often fade into the back ground, eclipsed by the constant sound and disruptions that permeate our lives. Nevertheless, set within the pages of **Preliminary Biology Dotpoint Life On Earth Answers** a charming fictional treasure brimming with raw emotions, lies an immersive symphony waiting to be embraced. Crafted by a wonderful composer of language, this interesting masterpiece conducts viewers on a mental journey, well unraveling the concealed melodies and profound affect resonating within each carefully crafted phrase. Within the depths of the emotional assessment, we will explore the book is key harmonies, analyze its enthralling writing design, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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