

# 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 billion 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.
  - Lightning
  - 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

**Jianjun Gao**



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