

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 (H_2O), methane (CH_4), ammonia (NH_3), hydrogen (H_2).

The atmosphere was **anoxic** meaning it had no free oxygen. (O_2), as all oxygen was bound within compounds such as water and carbon dioxide. This meant that there was no ozone layer (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°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.

Topic Test Preliminary Biology Life On Earth

S Ben Porath



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Excel Preliminary Biology Diane Alford,2004 Contains a comprehensive summary of the entire course activities glossary of terms and a list of websites **Excel HSC Biology** Diane Alford,Jennifer Hill,2008 **High-School Biology Today and Tomorrow** National Research Council,Division on Earth and Life Studies,Commission on Life Sciences,Committee on High-School Biology Education,1989-02-01 Biology is where many of science s most exciting and relevant advances are taking place Yet many students leave school without having learned basic biology principles and few are excited enough to continue in the sciences Why is biology education failing How can reform be accomplished This book presents information and expert views from curriculum developers teachers and others offering suggestions about major issues in biology education what should we teach in biology and how should it be taught How can we measure results How should teachers be educated and certified What obstacles are blocking reform *ENC Focus* ,1997 Scientific and Technical Aerospace Reports ,1972 New Approaches to Assessment in Science and Mathematics ,1997

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