

8.4 Life on Earth

1. Analysis of the oldest sedimentary rocks provides evidence for the origin of life

➤ *Identify the relationship between the conditions on early Earth and the origin of organic molecules (1.2.1)*

- Earth is about 4.6 billion years old.
- Conditions of early Earth:
 - Massive oceans present
 - Only small landmasses above surface of water
 - No ozone layer
 - Strong UV rays from Sun
 - Boiling oceans produced huge amounts of water vapour, making early earth extremely humid.
 - No free oxygen
 - Volcanic activity, heat, ash, dust and gases released into atmosphere
 - Atmosphere anoxic and full of toxic gases. Such as: water vapour (H_2O), methane (CH_4), ammonia (NH_3), carbon dioxide (CO_2), nitrogen (N_2), hydrogen (H_2).
 - Violent lightning storms common
- Description plausible since it matches with:
 - Conditions and chemicals on other planets.
 - The chemicals that erupt from volcanic vents today and probably always have.
- Chemicals of life contained within basic organic compounds:
 - Water
 - Carbohydrates
 - Lipids
 - Proteins
 - Nucleic acids
- These compounds mainly made of carbon, hydrogen, oxygen, nitrogen (CHON).
- Elements needed to create basic organic compounds, already present in atmosphere.
- Lack of ozone layer, frequent electric storms and volcanic activity of early Earth could have provided energy for molecules to form.

Comparing Conditions of Early Earth to Today:

	Early Earth	Today
Atmosphere	<ul style="list-style-type: none"> • No ozone layer, UV radiation • H_2, CO_2, hydrogen cyanide, N_2, ammonia, water vapour • No free oxygen 	<ul style="list-style-type: none"> • O_2, N_2 • Ozone layer
Oceans	<ul style="list-style-type: none"> • Plenty of oceans • Boiling oceans producing water vapour 	<ul style="list-style-type: none"> • Constant $0^\circ - 360^\circ\text{C}$ (average)
Temperature	<ul style="list-style-type: none"> • Extremely hot and humid (water vapour) • 1800°C 	<ul style="list-style-type: none"> • Average temperature is 20°C • Temperate
Weather	<ul style="list-style-type: none"> • Huge and constant electrical storms 	<ul style="list-style-type: none"> • Fairly constant, occasional storms
Geothermic Activity	<ul style="list-style-type: none"> • Huge amounts of volcanic activity • Spewing ash and gas into atmosphere • Forming land 	<ul style="list-style-type: none"> • Occasional volcanic eruptions

➤ *Discuss the implications of the existence of organic molecules in the cosmos for the origin of life on Earth (1.2.2)*

- For life to have originated, the following events need to have happened:
 - Required chemicals need to have been formed
 - Chemicals need to have come together in a self-replicating body
 - This body would need to have a form of protection for its contents
 - It had to be able to use an energy source to replicate itself
 - Organic molecules needed for life would have had to be present
 - These organic molecules could have been formed here on Earth, or been sent to Earth from outer space (the cosmos)

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Table of Contents Life On Earth Syllabus Dot Points

1. Understanding the eBook Life On Earth Syllabus Dot Points
 - The Rise of Digital Reading Life On Earth Syllabus Dot Points
 - Advantages of eBooks Over Traditional Books
2. Identifying Life On Earth Syllabus Dot Points
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Life On Earth Syllabus Dot Points
 - User-Friendly Interface
4. Exploring eBook Recommendations from Life On Earth Syllabus Dot Points
 - Personalized Recommendations
 - Life On Earth Syllabus Dot Points User Reviews and Ratings

- Life On Earth Syllabus Dot Points and Bestseller Lists
- 5. Accessing Life On Earth Syllabus Dot Points Free and Paid eBooks
 - Life On Earth Syllabus Dot Points Public Domain eBooks
 - Life On Earth Syllabus Dot Points eBook Subscription Services
 - Life On Earth Syllabus Dot Points Budget-Friendly Options
- 6. Navigating Life On Earth Syllabus Dot Points eBook Formats
 - ePub, PDF, MOBI, and More
 - Life On Earth Syllabus Dot Points Compatibility with Devices
 - Life On Earth Syllabus Dot Points Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Life On Earth Syllabus Dot Points
 - Highlighting and Note-Taking Life On Earth Syllabus Dot Points
 - Interactive Elements Life On Earth Syllabus Dot Points
- 8. Staying Engaged with Life On Earth Syllabus Dot Points
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Life On Earth Syllabus Dot Points
- 9. Balancing eBooks and Physical Books Life On Earth Syllabus Dot Points
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Life On Earth Syllabus Dot Points
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Life On Earth Syllabus Dot Points
 - Setting Reading Goals Life On Earth Syllabus Dot Points
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Life On Earth Syllabus Dot Points
 - Fact-Checking eBook Content of Life On Earth Syllabus Dot Points
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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