

## 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 ( $\text{H}_2\text{O}$ ), methane ( $\text{CH}_4$ ), ammonia ( $\text{NH}_3$ ), carbon dioxide ( $\text{CO}_2$ ), nitrogen ( $\text{N}_2$ ), hydrogen ( $\text{H}_2$ ).
  - 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                                                                                                                         |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| <b>Atmosphere</b>          | <ul style="list-style-type: none"> <li>• No ozone layer, UV radiation</li> <li>• <math>\text{H}_2</math>, <math>\text{CO}_2</math>, hydrogen cyanide, <math>\text{N}_2</math>, ammonia, water vapour</li> <li>• No free oxygen</li> </ul> | <ul style="list-style-type: none"> <li>• <math>\text{O}_2</math>, <math>\text{N}_2</math></li> <li>• Ozone layer</li> </ul>   |
| <b>Oceans</b>              | <ul style="list-style-type: none"> <li>• Plenty of oceans</li> <li>• Boiling oceans producing water vapour</li> </ul>                                                                                                                     | <ul style="list-style-type: none"> <li>• Constant <math>0^\circ - 360^\circ\text{C}</math> (average)</li> </ul>               |
| <b>Temperature</b>         | <ul style="list-style-type: none"> <li>• Extremely hot and humid (water vapour)</li> <li>• <math>1800^\circ\text{C}</math></li> </ul>                                                                                                     | <ul style="list-style-type: none"> <li>• Average temperature is <math>20^\circ\text{C}</math></li> <li>• Temperate</li> </ul> |
| <b>Weather</b>             | <ul style="list-style-type: none"> <li>• Huge and constant electrical storms</li> </ul>                                                                                                                                                   | <ul style="list-style-type: none"> <li>• Fairly constant, occasional storms</li> </ul>                                        |
| <b>Geothermic Activity</b> | <ul style="list-style-type: none"> <li>• Huge amounts of volcanic activity</li> <li>• Spewing ash and gas into atmosphere</li> <li>• Forming land</li> </ul>                                                                              | <ul style="list-style-type: none"> <li>• Occasional volcanic eruptions</li> </ul>                                             |

➤ *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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