

# 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  $1000^{\circ}C$  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

**Peterson's**



## **Topic Test Preliminary Biology Life On Earth:**

**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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**Large Space Structures & Systems in the Space Station Era** ,1991 *Bulletin of the Atomic Scientists* ,1973-11 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin s iconic Doomsday Clock stimulates solutions for a safer world

**Artificial Life V** Christopher G. Langton,Katsunori Shimohara,1997 In addition to presenting the latest work in the field Artificial Life V includes a retrospective and prospective look at both artificial and natural life with the aim of refining the methods and approaches discovered so far into viable practical tools for the pursuit of science and engineering goals May 16 18 1996 Nara Japan Despite all the successes in

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web the black sun occult symbol the term black sun german schwarze sonne also referred to as the sonnenrad the german for sun wheel is a symbol of esoteric or occult significance its design is based on a sun wheel incorporated in a floor of wewelsburg castle during the nazi era

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web sep 17 2021 also known as the black sun black sun geomeuntaeyang geomeun taeyang [ ] director kim sung yong screenwriter park seok ho genres action thriller mystery crime

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web black sun symbol revelation the two circles with the central small one linked to the big one via twelve sig rune rays are

known as the symbol of the black sun schwarze sonne in german indicating the infinite power and energy

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web black sun was a criminal syndicate that came into prominence during the clone wars as the jedi order focused more on military affairs and less on law enforcement black sun was allied with the shadow collective and its leader the renegade sith lord maul

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web the black sun german schwarze sonne is a type of sun wheel german sonnenrad symbol originating in nazi germany and later employed by neo nazis and other far right individuals and groups the symbol s design consists of twelve radial sig runes similar to the symbols employed by the ss in their logo

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web the term black sun german schwarze sonne also referred to as the sonnenrad the german for sun wheel is a symbol of esoteric or occult significance notable for its usage in nazi mysticism today it may also be used in occult currents of germanic neopaganism and in irminenschaft or armanenschaft inspired esotericism

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web oct 13 2020 40 373 ratings 7 698 reviews goodreads choice award nominee for best fantasy 2020 the first book in the between earth and sky trilogy inspired by the civilizations of the pre columbian americas and woven into a tale of celestial prophecies political intrigue and forbidden magic a god will return

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web nov 24 2020 the symbol evans deployed was the sonnenrad the sunwheel swastika or black sun it has its origins as a pictographic representation of the sun in ancient norse paganism similar symbols

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web black sun twining novel a 2005 novel by james twining black sun manga a manga first published in 2007 written and illustrated by uki ogasawara black sun roanhorse novel a 2020 fantasy novel by rebecca roanhorse black

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web may 24 2022 comparatively the nazi black sun symbol aka the sonnenrad comes across as downright underwhelming even so it was a piece of propaganda that the nazis happily leveraged toward their own ends norse influence over ancient germany

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web neo nazi symbols alternate names sunwheel black sun the sonnenrad or sunwheel is one of a number of ancient european symbols appropriated by the nazis in their attempt to invent an idealized aryan norse heritage

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web black sun during the clone wars the focus of the jedi knights on defeating the separatists meant a decline of law enforcement particularly in the sparsely patrolled outer rim territories this allowed criminal elements

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web jan 24 2019 by catherine beyer updated on january 24 2019 the black sun also known as the sonnenrad sun wheel in german specifically comes from the floor of the north tower of wewelsburg castle which was renovated by ss leader heinrich himmler

**black sun goodrick clarke book wikipedia** - Feb 13 2023

web black sun aryan cults esoteric nazism and the politics of identity is a book by the historian nicholas goodrick clarke in which the author examines post war nazi occultism and similar phenomena it was published by new york university press in august 2001 isbn 978 0814733264 and reissued in paperback isbn 0 8147 3155 4