

ENGLISH INTERNATIONAL SCHOOL OF BRATISLAVA

THE DISCOVERY OF EVOLUTION AND HOW IT IMPACTED THE WORLD

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INDIVIDUALS AND SOCIETIES

MR. THOMAS

FEBRUARY 23, 2024

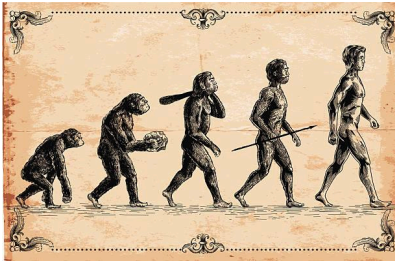
Date to be completed	Tasks to complete	Date actually completed
Jan 20th	Action plan	Jan 30th
Jan 20th	Choose my topic	Jan 20th
Jan 30th	Explore the question: “In what ways has the idea/innovation of evolution changed the world?”	Jan 30th
Jan 31st	Research the topic	Jan 31st
February 6th	Create an introduction to the idea	February 6th
February 6th	Analyse one of my sources in-depth (OPVL analysis)	February 14th
February 7th	Explain the story behind it	February 14th
February 13th	Write about who is involved	February 14th
February 14th	Write about why/how do I think it changed the world?	February 21th
February 20th	Provide and explain examples of different perspectives on the idea/innovation, such as opposition to the idea and/or different viewpoints on it.	February 20th
February 21th	Create a conclusion	February 21th
February 23rd	Submit work	February 23rd

Introduction

This report will explain what evolution is, who is responsible for the idea of evolution, what is the story behind it and how it changed the world. It will also provide examples of different perspectives, such as people who agree with the theory of evolution and people who disagree.

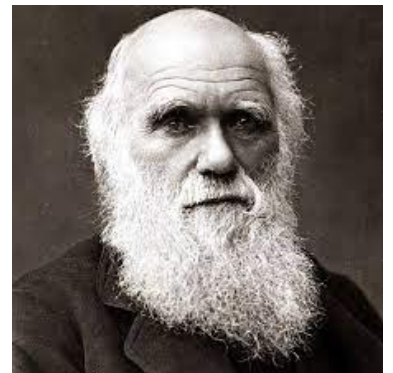
Evolution

Evolution is how living things slowly change over time. Charles Darwin is responsible for the idea of evolution. There are small differences in genes that pass from parents to offspring. This process helps species adapt over time. Evolution is a fundamental concept in biology that explains the variety of life on earth and how organisms adapted to their environments through millions of years.



Charles Darwin

Charles Darwin was a British naturalist, geologist and biologist, known as the “architect of the theory of evolution by natural selection.” He studied medicine at the University of Edinburgh. Then switched to divinity at the University of Cambridge, where he graduated in 1831. Charles Darwin was born in 1809 at The Mount House, Shrewsbury, United Kingdom and died at the age of 73 and was buried in Westminster Abbey in London, England. He gave the idea of the theory of evolution by natural selection.



What is the story behind evolution?



In 1859, evolution was discovered when Charles Darwin provided his theory of natural selection. He provided a scientific explanation which was correct but incomplete. He observed that species change overtime to survive in their environments. Charles Darwin talked about how evolution occurs and why organisms have features such as wings, eyes, and kidneys that are structured to have specific functions. The evidence was anatomy, biogeography, embryology, molecular biology and the discovery of fossil bones between 19th and early 20th centuries from big extinct mammals in for example in Argentina. Also in the 1830s the observation of species of finches in Galapagos Islands were found.

How did evolution change the world?

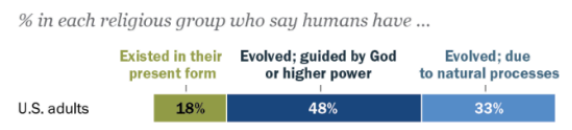
Evolution gave us an understanding of life. It explains how organisms modified to their environments over time through mutation and natural selection. Evolution helps us understand how diseases begin and how viruses evolve. This developed vaccines, treatments, therapies, and strategies on how to prevent diseases and illnesses. Through evolution, medicine continues to improve.

Different viewpoints on evolution

Many scientists accept the idea of evolution, but some people disagree. Some believe in creationism. They believe that god created life, and others disagree because of their beliefs. Some people believe in evolution due to the scientific evidence supporting it.

The reason why some do not believe in evolution, is because of their religious beliefs that do not support the idea of evolution. For example fossil records, genetic studies, and observed natural selection. In a 2019 Pew Research Center survey, 18% of American adults believe that humans have existed in their present form, 48% believe that humans have evolved guided by god or higher power, and 33% believe that humans have evolved due to natural processes.

Belief in evolution by religious tradition



Conclusion

In conclusion, evolution was discovered in 1859. It is how living things slowly change over time. Charles Darwin is responsible for the idea of evolution. Evolution is a concept in biology that explains the variety of life on earth and how organisms adapted to their environments through millions of years. Evolution gave us an understanding of life. It helped us understand how diseases begin and how viruses evolve. Charles Darwin talked about how evolution occurs and why organisms have features such as wings, eyes, and kidneys that are structured to have specific functions. Many scientists accept the idea of evolution, but some people disagree because of their beliefs.

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Videos and Images

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OPVL Analysis

<https://www.britannica.com/science/evolution-scientific-theory>

Origin: This primary source was created by Francisco Jose Ayala. Francisco Jose Ayala is a University Professor and a Donald Bren Professor of Biological Sciences. He is a professor of Philosophy in the School of Humanities, Professor of Logic and the Philosophy of Science in the School of Social Sciences, at the University of California, Irvine. He was awarded the 2001 National Medal of Science and 2010 Templeton Prize, among many others.

Purpose: The purpose of this video is to provide educational content for students, adults and schools. The content is also created to help middle school and college students to learn about evolution. The author of this article has no specific perspective.

Value: This source was very useful to me. It gave a basic understanding of what evolution is, who Charles Darwin is, how evolution is affecting people, plants, animals and other living things around the world, the evidence of evolution, it gave examples of fossil records, it explained the theory about evolutionary biology and molecular biology. This source is very informative.

Limitations: The source is very reliable and doesn't seem biased towards anyone, group or class. This source is objective. The source is limited by the fact that it doesn't provide the different perspectives on evolution.