

Juniiors

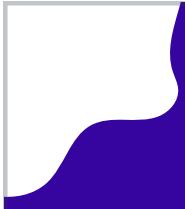




PLANET EARTH

(GERMAN FOR GROUND)

We live on the planet's hard, rocky surface, breathing the air that surrounds it, drinking the water that falls from the sky, and eating the food that grows in the soil. However, Earth did not always exist within this vast universe and it was not always a welcoming sanctuary for life.



QUESTION:

What is everything on Earth made up of? Are plants, animals, buildings & all living creatures made from the same material?

How? Let's find out

02



THE AGE OF THE EARTH

More than 4,500,000,000 years ago – before even the dinosaurs existed, before even the Earth existed – there was space.

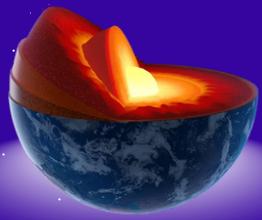
All around space strong and powerful reactions occurred and one such reaction created our Sun into a brilliantly shining star.

In space, there was a huge collection of stars mixed in with massive clouds of gas and dust, that today we call the Milky Way galaxy.

Around the sun, space gas and dust particles came together to form all the planets, including our planet Earth.

03

PLANET HEAT



Earth was unrecognizable in its early stages. It was extremely hot at first and covered with liquid fire.

When Earth first formed it had barely any atmosphere. Its atmosphere began to form as the planet started to cool.

It took over a few hundred million years before the planet cooled down and liquid water oceans formed.

Some space rocks full of ice and cold gas hit our planet and melted to form the seas and oceans.



04

This even happens today - every year more than three tons of space rocks hit the Earth.

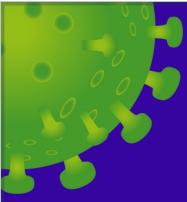
But slowly, over many years, the top layer of the Earth was cool enough to harden.

This is the ground we walk on today. We call it the Earth's crust.

Deep down underground, the Earth is still full of melted hot rocks.

05





PLANET BLUE



Gradually, over a long time, the first living organism "Bacteria" appeared. These were simple one-celled life forms.

While this happened, the shape of the land was changing as well.

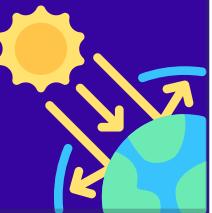
All land masses had come together to form giant supercontinents like Pangea which was surrounded by a global ocean called Panthalassa.

Alongside this land movement, Oxygen was now part of the Earth's Atmosphere, and the Ozone Layer also started to form.

Pangea is the most ancient supercontinent of planet Earth. All our present day continents, countries and islands have come from this huge land mass that existed in the past.



06



PLANET GREEN



These single-cell life form has now started evolving into multicellular life.



With the Earth becoming warmer day by day soon came the Age of Reptiles & Lizards and the earliest dinosaurs appeared.

07



After a lot of changes in the planet came the Age of Mammals. The first mammal on Earth was a Morganucodon, a mouse-like rodent animal.

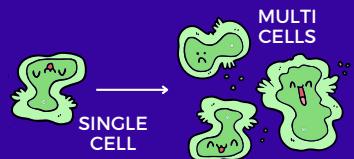


Soon, the first human ancestors appeared.

WORD WEB



SPACE



REPTILES



09

ORDER IT OUT

Planet Earth Formed

Earth's Core And Crust Formed

The Earth's First Oceans Formed

The First Life Appeared On Earth

Oxygen Began To Accumulate In The Earth's Atmosphere

The First Animals Evolved

The First Animals With Backbones (Fish) Evolved

The First Land Animals Evolved

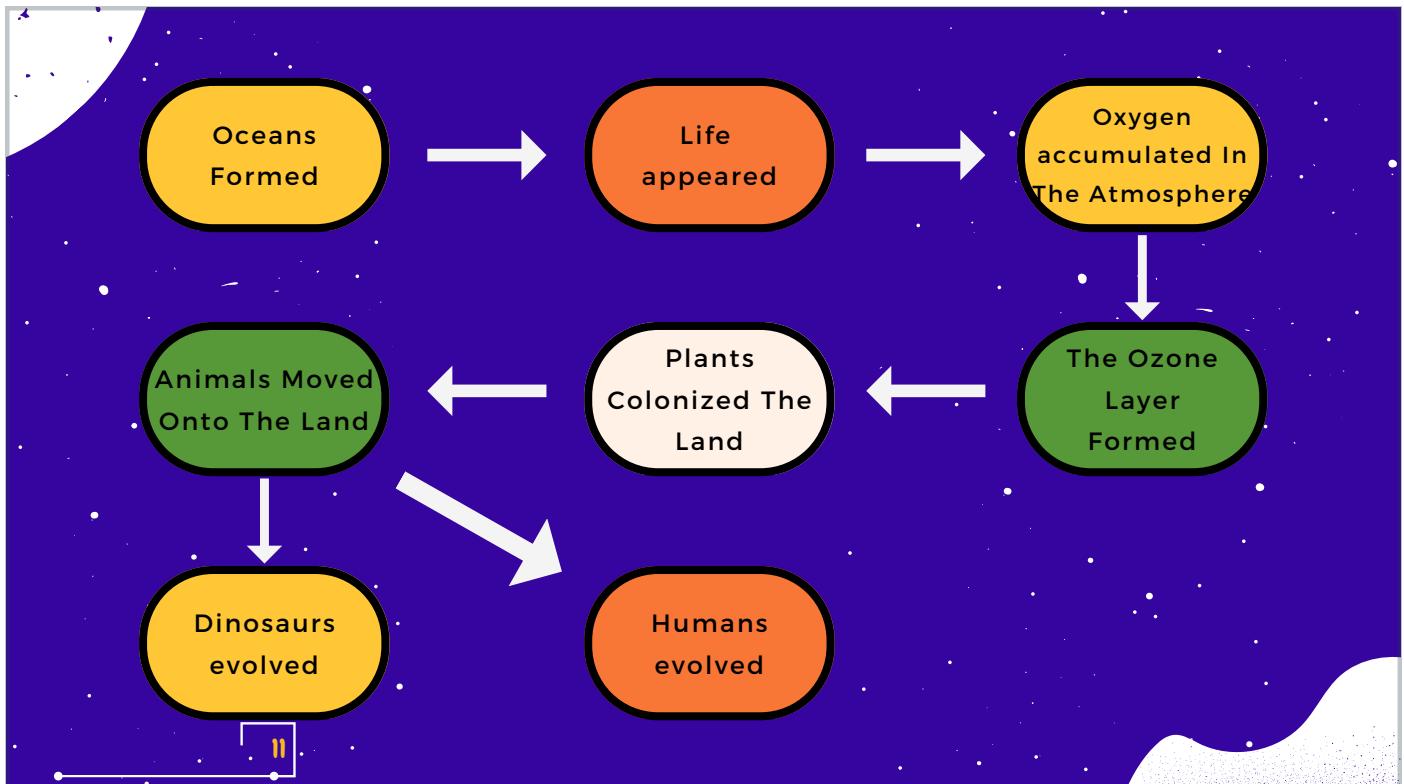
The First Land Animals With Backbones Evolved

The First Dinosaurs Evolved

The Dinosaurs Went Extinct

Modern Humans Evolved

10



DISCUSSION THEMES



We've only been around for a tiny fraction of the earth's history.

Our Oxygen has not always been here, It was made by tiny bacteria over millions of years and we wouldn't be here without them!



Although now extinct, dinosaurs ruled the Earth for 160 million years. We've only been around for 130 thousand years

For over 3,000 million years the earth's only inhabitants were simple bacteria. That's 68% of the Earth's history!

TRUE & FALSE

- | | |
|---|-------|
| 01 The Earth Is Thousands Of Millions Of Years Old. | True |
| 02 Oxygen Has Been In Our atmosphere Since The Earth First Formed | False |
| 03 Plants Colonized The Land Before Plants Did | False |
| 04 The First Life On Earth Was Plants | False |
| 05 The First Animals With Backbones Were Fish | True |
| 06 Modern Humans Have Only Been Around For 6,000 Years | False |