

Origin of the Earth

The Earth probably formed from material in the solar nebula—the cloud of gas and dust that led to the formation of the Sun. This material gradually grew into a larger and larger body that became a red-hot ball of rock and metal. Later the rocky crust formed, its surface cooling enough to allow the continents to appear. Even later the oceans arrived, as well as the tiny organisms that released oxygen into the atmosphere. Although much of this gas was initially consumed in chemical reactions, over time, it allowed the development of multicellular organisms and an explosion of life that took place at the start of the Paleozoic Era, 542 million years ago.

Continental Drift

Over time the continents, which are part of tectonic plates that drift across the Earth's surface at the rate of a fingernail's growth, 1/16th of an inch per year, have shifted. Africa, Australia, and Antarctica were part of the supercontinent Gondwana. When tectonic plates are pushed together, they can push together and submerge one under the other. When the plates separate, a rift forms. The rift eventually fills with water through the ocean as the water level that remains above the rift becomes lower than the surrounding ocean. When plates slide past one another, a transform fault can form. When plates slide toward one another, the ocean floor can dip down into the continent, and a trench, resembling a the foot of a mountain,



1 450 MILLION YEARS AGO
The supercontinent Gondwana formed as tectonic plates pushed together.



2 350 MILLION YEARS AGO
The plates have slowly split. Europe, including the continent, begins to separate and form.



3 250 MILLION YEARS AGO
Continents split, forming Africa and North America as the southern continent breaks into pieces.

Origin of the Earth

After Earth was formed 4.5 billion years ago from a cloud of dust and gas, it became molten. A core of molten, iron-rich metal grew in the center. The rocky layer to the outside of the atmosphere began to cool and harden, creating the crust.



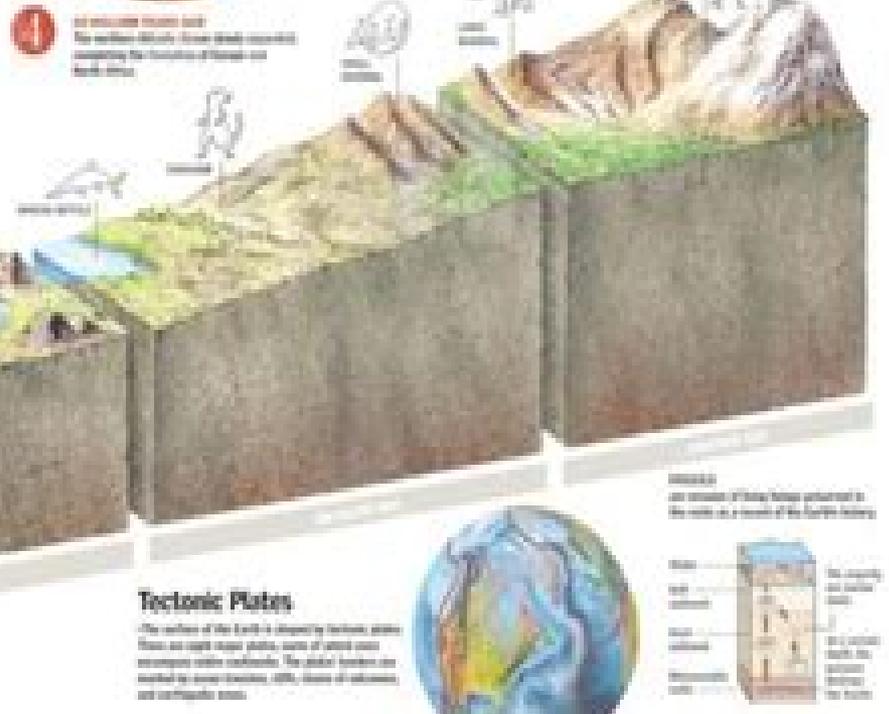
- 1** The Earth was formed from a cloud of gas and dust.
- 2** The molten, iron-rich core formed in the center.
- 3** The rocky crust formed on the outside of the atmosphere.
- 4** The fully formed Earth, with continents and oceans, was born.



Climatology

History is the study of what has happened in the past. In the study of Earth history, we are interested in the events and events leading up to the present. Climatology is the study of the climate of the past and the factors that influence it.

Through the study of Earth's history, we can learn about the Earth's climate and the factors that influence it. This is important because it helps us understand the Earth's climate and the factors that influence it.



1 The Earth's crust formed from the molten, iron-rich core.

Tectonic Plates

The surface of the Earth is composed of tectonic plates. These are rigid upper plates, some of which are composed of both crust and upper mantle. The plates' boundaries are marked by major features: rifts, zones of subduction, and transform faults.

2 The Earth's crust is composed of tectonic plates.



Earth System History

Richard Bailey



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