

The Earth



Moon System

4.5 billion years ago, **Earth** was forged out of the detritus of stars formation, assembled from dust that became rock, then boulders that collided and grew. Other planetary hopefuls roam the solar system. Impacts are frequent. The scene is a hectic one. A large rock about the size of **Mars** is doomed. It's heading towards **Earth**, destined for a slightly off-centered impact that will set everything that isn't already rotating into a frenzy spin. Upon impact, material from the incoming object and from the newly formed **Earth** is cast into space. A ring of debris orbits the planet, and in an astonishing short time (about one day) it begins to coalesce into a satellite. It takes somewhere between 1 and 100 years for the **Moon** to gather most of the debris into a ball. There are other theories for how the **Moon** was born, however this one is the most widely accepted as the most plausible. **Earth** may or may not have been rotating before the impact, but it certainly was afterward. Importantly, the orbital and rotational mechanics of this new (**Earth Moon system**) were then planed out for all time. The impact imparted angular moment on the system, a spin that could never be destroyed; the laws of physics tell us. With that said, if it were not for our **Moon**, the love for life as we know it would never have happened and we wouldn't be here to contemplate **Earth's** orbiting treasure. The **Moon** has had dramatic effects on our planet and the life that inhabits it, researchers believe. The **Moon** stabilizes **Earth's** rotation, for example, preventing otherwise dramatic movements of the pole that would fuel climate swing that some scientist figure might have doomed any chance for life to form, let alone evolve. Biologists speculate that tides, generated mostly by the **Moon**, would have been a logical place for life to have originated. Sea creatures might have then used tidal regions as experimental sites for testing the habitation of land, and therefore as an excuse to develop lungs. Put short, your guild ancestors might have used the **Moon** like a gravitational guiding light to the first non-aquatic procreation. In sense, the only place for there was a period of time when there was no **Moon** in our sky.

Earth's rotation is slowing down our days are getting longer and longer. Eventually, our planet's tidal bulges will be assembled along that imaginary line running through the centers of both **Earth** and our **Moon**, and our planetary rotational change will pretty much cease. **Earth's** day will be a month long. When this happens, approximately a billion years from now, the terrestrial month will be longer about 40 of our current days because, during all this the **Moon** will continue moving away from us at a rate of about, 1.6 inches (4 centimeters) per year father in space.

Consider this as a closing thought, the **Moon** is **Earth's** closest neighbor. It has a huge influence upon our lives. It's responsible for eclipses and governs the tides although, (the **Sun** plays a small part, but not nearly as much as our **Moon**), Biologists say that the **Moon** is even responsible in part for life on **Earth**, for without the tides causing currants and mixing of chemicals, life might never have formed. The **Moon** is actually, our temperature climate control assisting (**The Science of God's Earth**), with essay's of, (**The Anatomy of the Sun**), (**The Astronomy of God's Cosmos**) and now realistically providing and making sense to every word in the essay writing of (**The Analytic Miracle**) I ask you, what more do you need?

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