

## Science and Imagination

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*"Imagination is everything. It is the preview of life's coming attractions."*

**\*Corresponding Author:** Ahmed Mamun, "Imagination is everything. It is the preview of life's coming attractions."

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— Albert Einstein. [1]

Science is really charming, Innovations in science have just come from imagination and creativity like a spark glowing from a beautiful mind. Starting from a hazy born unclear idea, scientist plays around it time after time, it seems to be clearer and more compact, it is more like an imaginative play than a systematic process. Scientists' dreams were the first step in Newton's Laws, General and Special Theory of Relativity of Einstein and Copernicus' heliocentric solar system which named the sun, rather than the earth, as the center of the solar system [2]. This was extremely deviated from Aristotle's stated idea, scientists went so far to disclaim that the heliocentric system was just an imaginary hypothesis [3].

"Copernicus" had nothing but his imagination and his logic point of view without any practical observations. He could not "imagine" that the Earth could be the center of everything. Copernicus' Theory (Heliocentric Solar System) was viewed as the most revolutionary one, after long time "Galileo Galilei" proved it by his telescope and Newton described movements of the whole universe by his equations [4]. This imaginative thinking was the corner stone of the first breakthrough in Renaissance in Europe, imagination acted as a horse which pulled thoughts' streetcar in that age so far.

Imagination and innovation are really important in science, without imagination, science would never ever have existed. Knowledge without imagination is nothing, imagination helps scientists to encircle the world, take an overview look, it acts like a wing that takes thoughts to the sky. Imagination helps in solving mathematical equations which needs a lot of imagination because they describe

an augmented world which is necessary to understand nature and its mysteries. It's a very variable world and behaves differently, imagination is everywhere in every application and invention (airplanes, televisions, cell phones and computers). Knowledge is not the most important thing because I believe that imagination, creativity and innovation make the knowledge itself and make all scientists' ideas as a real. If knowledge gives answers, imagination gives the questions about everything we doubt. The first step to put ideas into a practical form is to play with imagination. Nowadays, augmented reality, virtual reality, 3D printers and holograms which represents the future of science are the normal extrapolation of our ancestors' dreams.

**How many great ideas were born by imagination with a cup of coffee or a piece of music!**

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