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Science's Role in the Evolution of the World

The world we live in continues to change at an exponential rate, making advancements in science more important than ever. Historical eras continue to accelerate due to the quickened process in which civilization evolves, led entirely by new theories and practices developed by today’s culture. Science drives change in every part of society, with agriculture, medicine, and space technology at the forefront.

Agriculture continues to see tremendous growth in the efficient production of produce. Experimentation and testing has developed the most prolific crops, while also maximizing their nutritional benefits and environmental adaptability. With agriculture on the brink of a new revolution in the form of genetic engineering, crop development has taken extraordinary strides in scientific advancements, continuing to become more influential in our everyday lives. These new, genetically modified plants are much more resistant to disease and pests, preparing them for increased success. The benefits science offers to agriculture extends into the medical field through the quest to cure diseases and improve our overall health.

Health care’s connection to science is essential in staying a step ahead of developing diseases that are destructive to our society. Antibiotics have continually adapted in response to superbugs and their progressing resistance to past treatments. Many of the diseases cured today would still be a prominent issue without medical improvements led by the use of scientific research. As viruses and bacteria become more intricate, science’s role becomes not only important, but imperative in the evolution of mankind. The future of civilization requires cutting-edge technologies to advance society at the rapid speed in which the world continues to evolve.

The root of technology is embedded within scientific research and development, this experimentation continues to evolve and create new systems, theories, and practical use
machines. Artificial intelligence has made enormous improvements in the past few years, replacing the need for humans to complete arduous tasks, by employing this responsibility to a technological advancement. Research projects such as space exploration operate much more efficiently with the use of robots, rather than humans who require food, water, and oxygen. Using technology in place of humans expels the risk of losing human lives, allowing scientists to remain safely on Earth to interpret the data.

Populations continue to grow and expand, requiring sufficient agricultural production, habitable land, and the need for health care advancements. Efficiency and land management are crucial in today’s agriculture due to the increasing demand for food and decreasing availability of fertile soil. Within upcoming generations, we will need to solve the ever problematic consequences of global warming and the depletion of Earth’s natural resources, or face the need to find another planet capable of sustaining humankind. Science is not only the leading cause of development, expansion, and adaptability, but the direction of our future and every potential societal, theoretical, and technological advancement.