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THE SIGNIFICANCE OF SCIENCE EDUCATION

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"The most powerful weapon we can use to change the world is education!" Nelson Mandela stated these powerful words in his address on the Importance of Education in Society. Education is a stairway to human growth and progress. Education moulds society into a better world. Understanding the value of education in today's culture is critical.

The current generation requires education in order to improve their employment prospects and become better citizens. Obtaining a higher-paying job through education is only achievable if people recognize the value of literacy and education in society. Modern society has modern difficulties, and the educated sector can solve many of them by improving problem-solving skills. The purpose and importance of education in society become obvious only when economic progress occurs. Academicians and educated employees work to achieve economic objectives. Their accomplishments have a positive impact on the lives of people from underprivileged communities.

Science plays a crucial role in education as it fosters critical thinking, problemsolving skills, and innovation.

Cambridge defines science as the thorough study of the structure and behaviour of the physical world, particularly via observation, measurement, and experimentation, as well as the development of hypotheses to characterize the outcomes of these efforts.

All scientific programs emphasize the need of thinking like a scientist. What matters most is that students understand facts, procedures, and approaches through the perspective of scientific reasoning. That way, when it comes time for them to undertake



some science on their own, whether in the lab or by theoretically thinking through a solution, they will know how to do it correctly.

Being critical is one aspect of this way of thinking. Critical thinking in science is not the same as critical thinking in other subjects based on facts and evidence. Students must question the information they are provided until they can prove it is correct. Thus, science encourages students to question and evaluate information critically. Students learn how to evaluate data and reach logical conclusions. Critical thinking abilities help pupils make better decisions in numerous facets of life. They must distinguish between what is true and what is gossip. It's challenging, but with the right tools and lots of practice, youngsters can master it.

Furthermore, science teaches students how to recognize and address issues in a systematic manner. Students learn how to develop hypotheses, plan experiments, and gather data. Problem-solving abilities learned in science classes can be applied in real-world circumstances.

Education in science can also foster creativity and innovation. Students are encouraged to think creatively and to come up with new ideas. A solid foundation in science education drives scientific discoveries and technical innovations.

Science education should foster learners' innate curiosity, wonder, and questioning, capitalizing on their natural need to seek meaning and understanding of the world around them. School students should be introduced to and experience scientific inquiry as an activity that anybody, including themselves, can do.

Aside from the possible scientific discoveries, learning science has individual benefits such as improving abilities to ask questions, collect information, organize and test ideas, solve issues, and apply the learnings in the real-world.

References:



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