EFFECTIVE SCIENCE TEACHING IN SCHOOL
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Science has become an integral part of school education in as much as the government aims for technological advancement. Thus, it is highly essential that teaching the subject matter needs to be developed considerably so as to achieve its purpose and objectives such as: to understand basic principles, to develop problem solving, analytical skills and to apply the said principles in day to day activities at the same time instilling a spirit of inquiry and experimentation. In this line, the Teacher must be acquainted to both the process and product in teaching Science concepts within and outside the classroom. As mentors, keeping up with the scientific discoveries and inventions is another must in order to avoid becoming misfits in the modern society.

Inside the classroom, the concept involved in science is no longer a problem as there are various sources available for the teacher. However, the real challenge is finding the application of these concepts into the daily lives of the students. This calls for the need of continuously updating the teacher’s knowledge on the methodologies, strategies as well as issues relevant to the fast changing world.

As the saying goes, “Invention is the product of a necessity” and so the thirst for knowledge and material requirement for human survival and prosperity should be considered when teaching Science. This calls for the teacher’s ability to introduce innovativeness in the teaching methodology in order for students learn effectively. By doing so, the students will be able to respond accordingly to the call of technology at par with the other country’s highly advanced technology.

It has been said that a teacher is born with an aptitude rather than with a technique. But even so, teachers need orientation to become teachers who are energetic, full of enthusiasm, dedication, and commitment to the teaching profession. It is to this premise that a teacher gains passion and commitment to effectively teach Science.
In this modern era, the rapid industrialization and technological development and improvements are special areas that need to be addressed. It is therefore necessary for the educators but also as ordinary citizens to have sufficient experiences in applying the concepts of Science in the field as well as the daily living scenario in order to relate the subject matter.

I once saw a video that encourages Science teachers to let the students to incorporate a fun activity while learning Science as the students tend to assimilate lessons faster through active interaction. At this juncture, the teacher needs to have a wider scope of knowledge as well as keeping himself updated with the pace in modern trends. If students enjoy learning these subject matters then it is more likely that students will remain in the classroom and listen intently to their teachers. Traditional teaching is therefore no longer applicable as children needs to learn by themselves once properly motivated.

Improving methodologies to teach science depends upon educators who can reach both hands to connect with other educators and making things happen by volition with blends of love and dedication. It will call for teachers to have a wide repertoire to cope with the changing world and achieving optimal learning. Objectives of instruction need to reflect worthwhile concepts and generalizations. Depth teaching of specifics assists learners to form and develop universal idea involving themselves to be effective agents of positive change becoming responsible for outcomes and responsive to every change.

An innovative and imaginative mind is an essential tool for students to use in analyzing and synthesizing subject matter. Mental development is hastened as students are provoked to learn, achieve and develop. By doing so, the implications to the learners will be of great intensity.

Reference : Modern Teacher – 1996 Issue