CRITICAL THINKING IN SCIENCE CLASS

by

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Have you been wondering what science can enhance on us aside from providing us with knowledge? Yes, it is our critical thinking!

Science further leads the students to better thinking. The inquisitiveness of the students regarding the ideas being presented in science class is entertained and given importance by science teachers.

The mastery of scientific concepts is made possible the acquisition of science knowledge and by critical thinking. For one who has acquired does not only affirm immediately but has to think logically.

The new discoveries and inventions by our scientists are also subjects of critical thinking. As one discovers the data on one undertaking, the science student does not readily agree with it but rather further explores the validity of the said discovery.

Normally, in science class the teacher discusses the lessons with the active participation of students. To further invigorate the learning experiences of the students the teacher provides strategies and activities which invite critical thinking.

The likes of cooperative learning, collaboration, brainstorming and other dynamic group activities let the students think deeply and critically in order to arrive at the best answer or solution to a certain problem or situation.

Further, the teacher’s best practices in the classroom like using Strategic Intervention Materials (SIM), interactive games, fun activities and others also allow critical thinking wherein the students also use analysis for they cannot find success in the said activities if they don’t think logically regarding the ideas being presented and the instructions being directed.

In science class, open-ended questions require critical thinking. The students are stimulated on original thoughts in science lessons and are encouraged to reflect on the ideas that they think are correct to serve as the answer to a certain matter or topic. Thus,
the students may be involved in active learning and may make an effort to list down ideas regarding the question.

Also, in science class, the students are comparing and contrasting. The work of doing it necessitates critical thinking. It makes one distinguish between different processes and concepts. It further describes the steps in the procedure and the ideas in a certain principle or theory.

Science also involves analyzing different graphs, diagrams, tables, graphs and illustrations. Critical thinking is a must in analyzing figures so that better understanding of the concepts may be attained.

Explaining the relationship between key terms also needs critical thinking. The students should determine the connotations of the words and if these words are meaningfully connected to each other.

During the laboratory sessions critical thinking is desired. Forming observations on occurrences and deriving inferences are pivotal activities in the laboratory activities. In doing such, critical thinking is very important for one should keenly observe and must intelligently infer.

Critical thinking in science class is one important element which will promote the use of mental faculties in order to come up with valid, accurate and right ideas in science subject.

Reference:

https://owlcation.com/academia/Writing-in-the-science-classroom