This study is purposely intended to address the use of information and communication technology (ICT) in teaching as one of the major areas of development. Recommended by the Department of Education (DepEd) Undersecretary Ramon C. Bacani as embodies in Enclosure No. 2 and 3) of DepEd Order No. 35 s. 2005 in particular shows how today’s teaching technology with computer through the use of the Programmed Simulated Experiments (PSE) strategy helps in making learning more efficient and enjoyable in the science laboratory and how ICT can open up new areas of academic endeavor. The PSE is expected to cause an active acquisition of physics concepts and science processes among learners hence, coming up with a good strategy in teaching as one of the ‘best practices’ in the teaching-learning process.

This study used the quasi-experimental research design. Two groups comparable in terms of Grade point Average size were included.

Group I (Experimental Group) was taught using the Programmed Simulated Experiments Strategy while Group II (Control Group) was taught the same topics with the use of the Practical Work strategy. Both pretests and posttest on Physics Concepts and Science Processes were administered to the students.

The $t$-test of Pooled Variance and Paired $t$-test were used to determine if there is a significant difference between the pretest and the posttest mean score of the two groups along the following areas of knowledge: (1) Physics Concepts (2) Science Processes and (3) comparing the mean Posttest scores of the two groups.

Result of the analysis showed that the performance level of students increase significantly in both groups along tests of physics concepts and science processes. However, the performance level of the student in the posttest of the Programmed Simulated Experiments (PSE) strategy in both
Physics concept and Science processes is significantly higher than the traditional Practical Work Strategy.

Both the PSE and PWS are effective for a better acquisition and application of Physics concepts and Science processes. Thus PSE and PWS can be used vis-a-vis for practice.