

E-SIM AS A TOOL IN TEACHING SCIENCE

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SIMs are educational resources created with the aim of remediation. It is one of the techniques used by the Department of Education (DepEd) to improve the academic performance of kids who are performing poorly in class. SIMs are meticulously designed and thought out in order to pique a student's interest in a particular skill by making the information appealing to the eye, consequently enhancing their level of learning and mastery of the subject matter. SIMs also motivate students to think, do, and learn more. SIMs have been a significant teacher's tool for remediation, particularly in mathematics and science. In this regard, DepEd sponsored training and workshops on how to produce SIMs to guarantee that everyone has a basic understanding of how to make SIMs. As a result, there is an annual SIMs Making competition for instructors across the country.

Interventions must be implemented in accordance with DepEd Order No. 39, Section 2012, in order to overcome learning gaps. This is the solution used by DepEd to address pupils' declining academic performance. One of the potential intervention formats that might bridge the existing learning gaps is Strategic Intervention Material. It is a remedial tool for learners at the level of their comprehension, to boost their academic accomplishment. Furthermore, SIMs are solutions for increasing learner accomplishment and decreasing least taught skills in all disciplines, as stipulated in DepEd Order No. 117, s. 2005.

According to the results of Barredo's (2013) study, Evaluating the Effectiveness of Using Strategic Intervention Material in Improving Academic Performance in Science, Strategic Intervention Materials were effective in mastering learning competency-based-

skills of the students in science subjects based on the mean gain scores in the posttest of the experimental and control groups shows positive correlations. The study also demonstrated that E-SIM boosted student performance in Science disciplines.

In addition, was the study of De Jesus (2020) entitled Improving the Least Mastered Competencies in Science 9 Using “Pump-It-Up! Electronic Strategic Intervention Material. The results show that E-SIM can greatly improve learner performance on the least understood topics. It is also suggested that parallel research be done in order to include E-SIM into conventional classroom teaching practices. SIMs are supplied by teachers as a remediation tool to help students build competencies that they did not grasp during normal classes. For a large group of students, a PowerPoint presentation can be used. Some teachers utilize standard teacher-made notebooks with computerized activities. It is preferable, however, if the SIMs are created from recycled materials. Every SIM-based remediation should take into account the individual learner's learning style, interests, skills, and difficulties.

Thus, it is proven in the research study that E-SIM has an effect to improve the performances of the students in science subjects

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