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## Music, Context-Based Inquiry and Computer Simulation as Engagement Strategy

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The standard of engagement in science classes is fundamental for effective learning. Creating an active learning environment is essential for engaging learners. However, implementing engagement is one of the most important problems facing teachers. Furthermore, there are different engagement strategies and teachers often do not know what strategy to use, or only use one of them. This paper attends to the factors that could influence the choice of an appropriate engagement strategy.

In a research study we set out to explore music, context-based inquiry, and computer simulation as engagement strategies as well as the impact of these strategies on the four components (behavioural, emotional, cognitive, and authentic) of engagement. The application of mixed methods comprised of a pre-test and posttest questionnaire (quantitative), video recording and semi-structural interviews (qualitative). The general results that follow from this research is that the choice of an appropriate engagement strategy does not only depend on the topic to be taught, but also on other factors namely teachers' acquaintance with the strategy, the learning environment, the background of the learners, the engagement components that need attention as well as the amount of time available. A combination of the three engagement strategies has proven to enhance engagement.

## Apply to be considered for a student ; award (Yes / No)?

Yes

## Level for award;(Hons, MSc, PhD, N/A)?

PhD

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