

ABSTRACT

CREATIVE THESIS PROJECT: Inverted-Classroom Problem-Solving Methodology and Video Recorded Materials

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Many learners today struggle with modern textbooks and their motionless depictions of information. As a response, schools and classrooms are becoming more digital to reach those learners who learn best in dynamic ways. Using technological tools an instructor can reach children in new and energizing instruction that uses the text but is not reliant on it for full instruction.

One popular technological platform is a video hosting website called YouTube (www.youtube.com) where videos can be uploaded and replayed as needed. It is the purpose of this creative project to create YouTube videos introducing concepts and solving problems for topics in physics in a more dynamic way. In these videos, careful consideration will be given when detailing and explaining the problem. Problem-solving strategies will also be exemplified in these videos. Using this re-watchable medium of digital videos could prove to help learners who otherwise struggle to find success in less dynamic circumstances in physics.