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Jeffrey Peariso, *Teacher*
Clarkston Junior High, Clarkston, Michigan

Challenge

Ensuring homebound and absent students have access to lessons so they don't fall behind academically.

Solution

Create a flipped classroom option allowing all students anytime, anywhere learning opportunities.

Benefits

- Homebound and absent students keep up with lessons
- Teachers can archive lessons and notes for re-use
- Promotes student creation of original content
- Extends learning opportunities for all students

Location

Clarkston, Michigan



Powering the Flipped Classroom in Clarkston School District

When math teacher and unofficial district technology “scout” Jeffrey Peariso saw Luidia’s eBeam Edge in action at a technology conference in 2011, he recognized right away its tremendous potential for increasing classroom interactivity and saving precious district dollars. At about half the price of a traditional electronic whiteboard, the eBeam Edge could be placed into twice as many classrooms and offer the crucial portability not possible with a whiteboard.

Two years into integrating the eBeam Edge into classes across the district, including his own eighth- and ninth-grade Algebra and Statistics courses, Peariso says there have been unexpected ripple effects far exceeding the benefits he’d imagined. “The eBeam Edge has opened up a whole new world of opportunities to reinforce and extend learning not just for homebound or absent students but for all students at every grade level,” he says.

Peariso uses the eBeam Edge on a daily basis to record and save lessons for later class periods, to add to his professional eportfolio, and to email out to students as a study tool to reinforce skills. And by pairing eBeam Edge with Skype or Google Hangout, Peariso can create a flipped classroom option, with audio and video demonstrations of him explaining math concepts and working through problems. Students can access these flipped classroom lessons anytime, anywhere from remote locations, and can be assured of personal security as they must be “invited” to participate in the presentations and their faces are never shown. This flipped model has significantly extended learning opportunities for students,





allowing them to keep pace with daily concepts introduced in the classroom and to easily access past lessons and review skills in advance of tests and quizzes.

Peariso also finds that eBeam Edge is a powerful tool for promoting innovation and creativity when paired with other resources, such as the Camtasia video and recording solution. With this combination, students can create videos on math topics, such as standard deviation and quadratic formulas. Peer-to-peer teaching, Common Core State Standards mastery and digital-era assessment are also reinforced through these projects as students share and exchange their original videos. "If you know it well enough to clearly explain it to somebody else, then you have demonstrated a clear understanding of the concept," says Peariso.

Attesting to the power of eBeam Edge and the flipped classroom model are his students' district math test scores, which Peariso says have jumped 10 to 15 percent since implementing the technology. "Parents tell me their children are much more on top of what is going on in class and more confident approaching tests because they have the notes to review," he says.

Peariso is currently expanding his plans for using the eBeam Edge as a centerpiece for transformative education models. In the works are an online school, with the eBeam Edge as the underlying technology. The online school will serve summer school students and those enrolled in GED or credit recovery programs. It will also save time and transportation costs by allowing elementary level students who take junior high school courses to work from home rather than being bused across the district. In the 2013-2014 school year, Peariso hopes to open up the online school to all students in the district.