

# Case Study

## Kingman Academy of Learning

KINGMAN, AZ

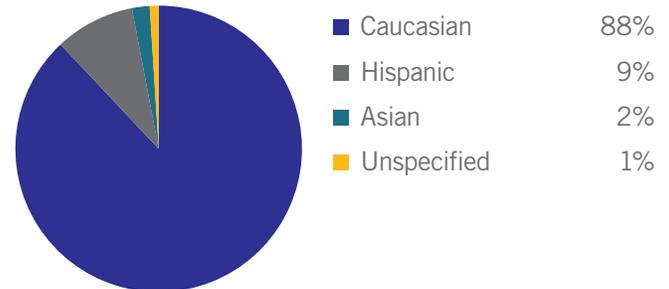
### Can an online learning program mitigate high failure rates in math courses?

**Problem:** 25 percent of high school students were failing math courses.

**Solution:** Students used Edgenuity courses to support on-time graduation.

**Outcome:** Students gained a better grasp of math content and recovered credits.

### School Demographics



### Background

Kingman Academy of Learning in Kingman, Arizona, was one of the first 12 charter schools in Arizona. After discovering that 25 percent of high school students were failing mathematics courses, administrators recognized they needed a solution to help bolster students' skills.

### An Effective Blueprint

In 2011, school leaders piloted Edgenuity with seniors who were in danger of not graduating. "We started with five senior boys who would not have graduated if they took eight classes on the block schedule," said Susan Chan, District Administrator. "After using Edgenuity courses for credit recovery, four of those boys graduated on time to walk with their class, and one graduated this summer." The Edgenuity program was so successful that it was expanded to include 80 ninth, tenth, and eleventh graders the following year.

To build on this success, the Academy converted three classrooms into one large Edgenuity math lab with 60 computers and added a room for small-group instruction. Students attended the math lab for one period a day for four days a week and used Edgenuity courses for Pre-Algebra, Algebra I, Algebra II and Geometry instruction. While 60 students worked on computers, 20 students received face-to-face small group instruction. Within two years, students were expected to complete the core math courses.



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Students spent the bulk of their time in the computer lab receiving instruction via online videos. All exams were taken online, and academic standards were set high for students. In order to pass a quiz or test, a student was expected to score at least 80 percent. If a student did not pass a test after three attempts, he or she had to repeat the entire unit.

While students were in the computer lab, two teachers circulated to answer questions about course content. Teachers monitored progress, checked students' notes, reviewed quizzes, assigned grades, and confirmed that students were actively engaging in the course. If a student performed poorly on an assessment, the teacher analyzed data from Edgenuity's learning management system to see which topics were difficult for them and assigned or reassigned lessons or activities. In addition, upper-level students who were strong in math received elective credits for assisting students.

## Generating Success

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Teachers and administrators said Edgenuity made a positive difference in their students' lives.

According to Chan, students received more personalized support. "I like that kids can review math concepts and go back to re-watch videos," said Chan. "In a traditional classroom, a student has to wait until a teacher has the time to explain content material. With Edgenuity, there is always help."

Bill McCord, a math teacher, agreed with Chan. "The new kids coming in are finally grasping math concepts," said McCord. "I think they are learning better."



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