CHEMISTRY IN 21ST CENTURY CLASSROOMS

A GROWING DEMAND

There are 26 million STEM jobs in the U.S., representing 20% of all U.S. jobs. 20%

STUDENT ATTRITION

Fewer than 40% of students who enter college majoring in a STEM field earn a STEM degree. 2

WHY?

90% of information that comes to the brain is visual. 4

65% of the population are visual learners. 4

However, 80% of instruction is delivered orally. 4

WHY?

- Too competitive
- Disconnect with faculty
- Classroom structure 3

THE EFFECTS OF USING VISUALIZATION TOOLS IN COLLEGE CHEMISTRY

- 89% improved understanding 5
- 86% increased confidence 6
- 75% wish they had these tools in their chemistry course 5

INTEGRATING 3D TECHNOLOGY

3D technology in classroom instruction has led to:
- Improved comprehension
- Increased engagement
- Better test scores
- Highly satisfied students

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