CHEMISTRY IN 21ST CENTURY CLASSROOMS

Technology, visualization, and interactivity are beneficial for learning difficult subjects like chemistry. For years, research has linked achievement in STEM courses to visual spatial literacy: the ability to understand and mentally manipulate shapes. By utilizing spatial learning strategies and state-of-the-art technology *Gale Interactive: Chemistry* allows students to interact with all states of matter and their chemical reactions, strengthening conceptual understanding of the most basic and difficult concepts.

A GROWING DEMAND

THERE ARE **26 MILLION** STEM JOBS IN THE U.S.

REPRESENTING **20% OF ALL U.S. JOBS**[1]

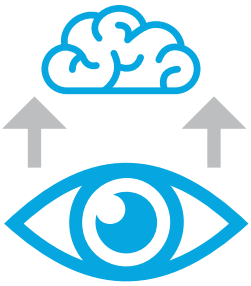
STUDENT ATTRITION

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

WHY?

- TOO COMPETITIVE
- DISCONNECT WITH FACULTY
- CLASSROOM STRUCTURE[3]

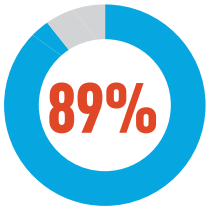
90% of information that comes to the brain is **VISUAL**[4]



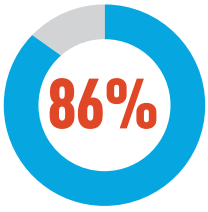
65% of the population are **VISUAL LEARNERS**[4]

HOWEVER, **80%** OF INSTRUCTION IS DELIVERED ORALLY[4]

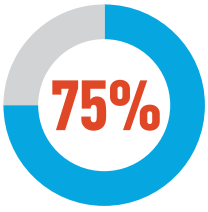
THE EFFECTS OF USING VISUALIZATION TOOLS IN COLLEGE CHEMISTRY



IMPROVED UNDERSTANDING[5]



INCREASED CONFIDENCE[5]



WISH THEY HAD THESE TOOLS IN THEIR CHEMISTRY COURSE[5]

INTEGRATING 3D TECHNOLOGY

Interactives Powered By: VIVED

3D TECHNOLOGY IN CLASSROOM INSTRUCTION HAS LED TO:

- Improved Comprehension
- Increased Engagement
- Better Test Scores
- Highly Satisfied Students

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