

CHEMISTRY



IN 21ST CENTURY CLASSROOMS

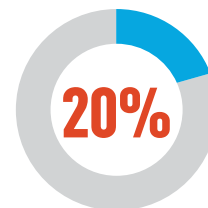
Technology, visualization, and interactivity are beneficial for learning difficult subjects like chemistry. For years, research has linked achievement in STEM courses to visual spatial literacy: the ability to understand and mentally manipulate shapes. By utilizing spatial learning strategies and state-of-the-art 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. JOBS¹



STUDENT ATTRITION

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

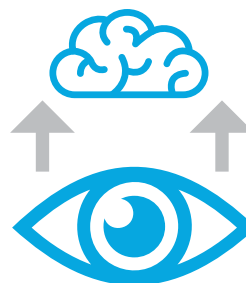


WHY?

- TOO COMPETITIVE
- DISCONNECT WITH FACULTY
- CLASSROOM STRUCTURE³

90%

of information that comes to the brain is **VISUAL**⁴



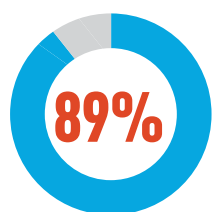
65%

of the population are **VISUAL LEARNERS**⁴

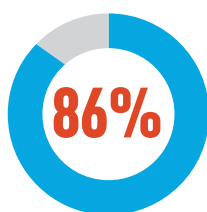
HOWEVER, **80%** OF INSTRUCTION IS DELIVERED ORALLY⁴

THE EFFECTS OF USING VISUALIZATION TOOLS IN

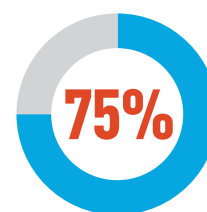
COLLEGE CHEMISTRY



IMPROVED UNDERSTANDING⁵



INCREASED CONFIDENCE⁵



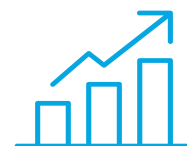
WISH THEY HAD THESE TOOLS FOR THEIR CHEMISTRY COURSE⁵

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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