

# Innovation Proposal: Chemistry Augmented Reality

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## Proposed Innovation

This class will leverage augmented reality (AR) technology to enhance chemistry education. Students will dive into immersive AR experiences that bring complex chemical concepts to life. Augmented reality will be used to transform traditional chemistry lessons into interactive and engaging experiences. Students will use AR to visualize molecular structures, chemical reactions, and laboratory simulations in a three-dimensional space.

## Purpose and Potential

This hands-on approach will allow students to explore abstract concepts in a tangible way, fostering a deeper understanding and retention of the material. The AR technology will also enable students to conduct virtual experiments, safely simulating reactions that might be too dangerous or impractical to perform in a physical lab. This innovative curriculum encourages students to develop a strong interest in the subject and pursue further studies in the field.

### Courses Include

an in-person classroom setting on campus in an A or B-day rotating schedule.

### Student Outcomes

will be measured through formative and summative assessments to track growth measurements and student progress. These will include AR-based quizzes, lab simulations, and traditional written exams.

### Funding

Grant funding will be used for the purchase and operation of classroom materials including VR devices and digital subscriptions.

*Under House Bill 386, Local Education Agencies can approve up to \$5,000 in grant funding for innovation programs. The innovation outlined here is one example that has been approved for implementation. Learn more at [schools.utah.gov/ulead](https://schools.utah.gov/ulead)*

