



Evidence Explained

ESSA emphasizes “evidence-based” approaches that have demonstrated statistically significant positive effects on student outcomes. ESSA identifies four levels of evidence: Level 1 Strong, Level 2 Moderate, Level 3 Promising, and Level 4 Evidence that demonstrates a rationale. The levels are defined by the research study design.

Experience Chemistry® meets ESSA’s Level 4 evidence criteria

Level 4 Evidence Criteria	Alignment to Requirements	Detail
A study that indicates how a program is likely to improve student outcomes	Meets	<p>A Formative Field Test was conducted in which 6 high school chemistry teachers implemented the <i>Experience Chemistry</i> program in their classrooms for one school year.</p> <p>Students using <i>Experience Chemistry</i> achieved statistically significant growth on a comprehensive chemistry assessment.</p> <p>+13 • Students showed an increase of 13% on the assessment</p>
A well-defined logic model or study that indicates how a program is likely to improve student outcomes.	Meets	<p>The Logic Model for <i>Experience Chemistry</i> is available here.</p>

For more information, visit:

savvas.com/evidencebased

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800-848-9500

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Experience Chemistry®

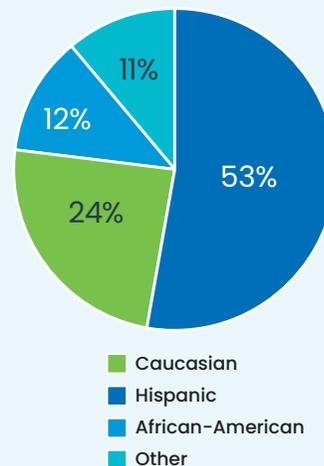
Study completed by: JEM & R

[Available here](#)

Year: 2024-2025

Study description: The study explored the relationship between *Experience Chemistry*® and student growth on a comprehensive chemistry assessment over the course of a school year. The sample included 647 students, taught by 6 teachers, from 2 districts in CA and OH.

The final sample was diverse, including:



Additionally, 99% of students qualified for free/reduced lunch.



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