BUILD CAPACITY WITH THE

ENGINEERING DESIGN AND SCIENCE INSTITUTE

Overview

NGSS 3D Science Leadership Institute enhances science integration with hands-on sessions on how to help students improve science achievement. Builds capacity to teach 3D science, use technology, and integrate principles of engineering.

Flexible 2 to 6 hour virtual or on-site sessions - up to 18 hours.

After participating, teachers will:

- Gauge level of 3D Science Implementation in classroom
- Examine phenomenon-based performance expectations
- Apply 3D science and engineering design and demonstrate what this looks like in practice
- Build content and pedagogical content knowledge (PCK)
- Engage students in inquiry by asking questions, carrying out investigations, and using evidence to make claims and argue conclusions

EDforTech STEM Specialists

Who Benefits from These Institutes

K-5 Teachers

Elementary teachers who feel underprepared for science instruction and need ready-to-use strategies that can be implemented immediately without extensive planning.

Middle School Teachers

Secondary teachers who want to boost student engagement and deepen inquiry-based learning in their science classrooms.

Instructional Coaches

Science leads and instructional coaches looking for aligned, scalable professional development that supports district-wide improvement.

School Leaders

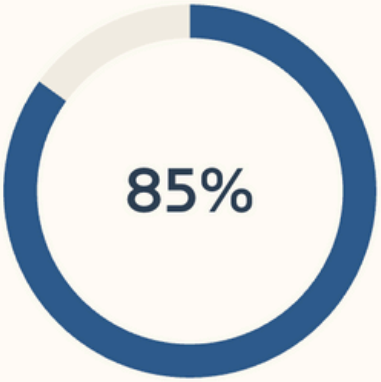
Principals and district leaders who need wins in science achievement and equity goals while experiencing what quality science instruction looks like.

Proven Impact and Results

Our Engineering Design & Science Institutes deliver measurable results that extend far beyond the workshop experience. Teachers leave with confidence, students show increased engagement, and districts see alignment with their strategic priorities.

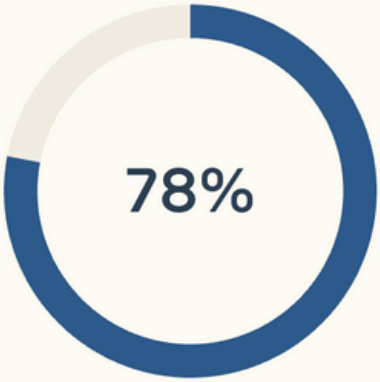
Teacher Confidence

Participants felt more confident teaching science the very next week after completing the institute.



Immediate Implementation

Teachers reported using new strategies in their classrooms within the first month of training.



Student Engagement

Increase in student engagement and interest in science activities as reported by participating teachers.

> "*This PD gave me some hands-on experiments I could use right away — and it worked to engage my class.*"
>
> —Newark Teacher

> "*I personally experienced an unlocking of my brain in terms of my thought process. The ideas that I have for my students will help me become a better educator inside and out of the classroom.*"
>
> —San Antonio Teacher