

General Description:

The Texas Education Agency launched the Texas Mobile STEM Laboratory in partnership with *Learning Undefeated* in 2020. The custom-outfitted STEM learning space offers engaging, hands-on STEM experiences for students and teachers, teaching science, technology, engineering, and mathematics topics and skills. The TEA-approved curriculum models STEM practices and encourage teachers to integrate engineering design challenges into everyday classroom activities. The curriculum allows K-8 grade students to engage with the engineering design process through brainstorming, designing, and testing.

Objectives:

- Provide rural campuses and underrepresented populations with high-quality STEM experiences
- Provide the Mobile STEM Laboratory to at least 30 campuses across Texas including at least one visit in each of the 20 education service regions each school year
- Model high-quality STEM instruction aligned to the Texas Essential Knowledge and Skills (TEKS) in math and science
- Offer community STEM events in each service region across Texas
- Provide in-person and virtual support through professional development sessions for teachers implementing STEM experiences in their classrooms

Outcomes:

Each operating year, survey data is collected at the student, teacher, and administrative levels about the curriculum, demographics, and STEM identity of students. Highlights from those reports include the following:

- 94% of students and 97% of teachers surveyed wanted a return visit from the Texas Mobile STEM Lab
- 100% of teachers surveyed believed that the curriculum was a good model of a STEM activity
- 90% of teachers surveyed strongly agree or agree that they feel very confident repeating the STEM activity on their own
- 84% of the students would like to do another engineering design challenge
- 43% of the students believe they could pursue a STEM career after completing a design challenge

Authority and Funding:

General Appropriations Act (GAA), Article III, Rider 73, 87th Texas Legislature, 2021

2020-2021 Budget	
Grant to Learning Undefeated	\$250,000
2021-2022 Budget	
Grant to Learning Undefeated	\$250,000

Program Impact

2020-2021 PARTICIPATION DATA

16 Regions
21 Campuses
3,536 Students
158 Teachers
220 Campus Visit Requests

STEM Professional Development

3 Webinars
2 In-Person Workshops
147 Participants Total

2021-2022 PARTICIPATION DATA

20 Regions
29 Campuses
7,048 Students
324 Teachers
178 Campus Visit Requests

STEM Night Participation

347 Families
40 K-12 Educators

STEM Professional Development

3 Virtual Workshops
4 In-Person Workshops
63 Participants Total

*For the 2022-2023 school year, we had 527 campus visit requests.