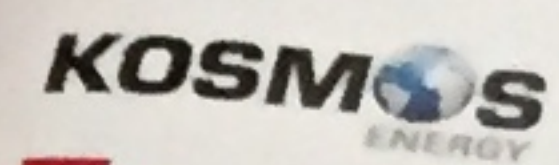


TEACHER PROFESSIONAL DEVELOPMENT: A NEW MODEL FOR SUCCESS

Andrew Montgomery | Dallas, Texas



STEM TEACHER INSTITUTE Perot Museum of Nature and Science

The Kosmos Energy STEM Teacher Institute is a year-long program for science educators at the Perot Museum of Nature and Science in Dallas, Texas. The institute focuses on increasing teachers' competence, confidence, and creativity while empowering and inspiring learner leaders.



Continually working to improve and expand our professional learning network by working with schools, universities, other informal education, and science professionals across the Dallas-Fort Worth community.

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THE MODEL

Academies

Educators were placed into one of four academies based on their years of teaching science:

- PRE-SERVICE ACADEMY**
- NOVICE ACADEMY**
- ADVANCED ACADEMY**
- MENTOR ACADEMY**

Teachers matriculate into the next level after successful completion of one year of the Kosmos Energy STEM Teacher Institute.

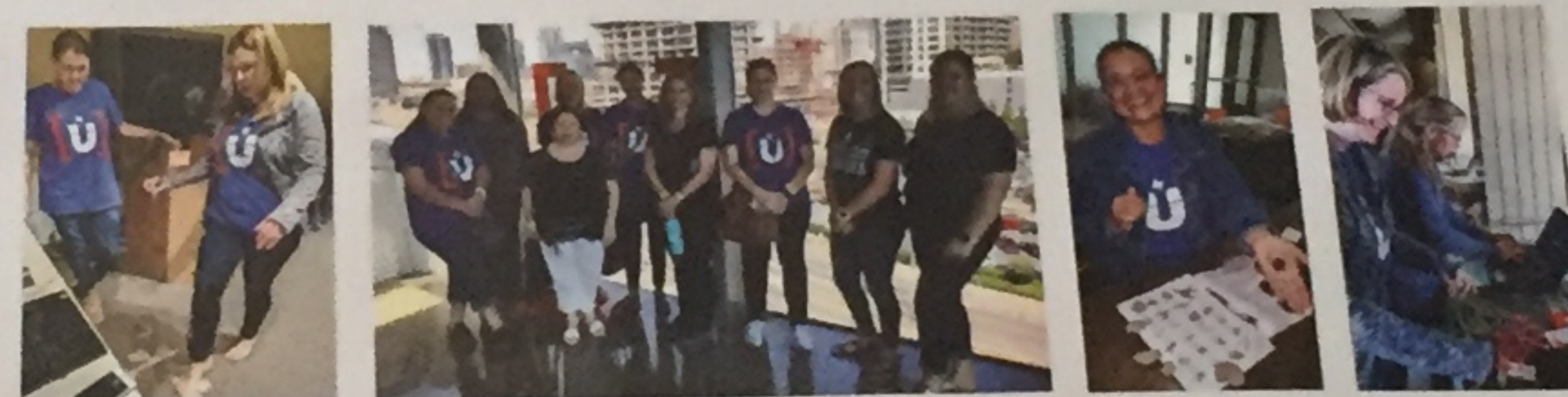
Four-Day Summer Academy

Each summer, participating teachers attend a four-day summer academy with other teachers who have similar levels of experience teaching science.



Five Saturday Workshops

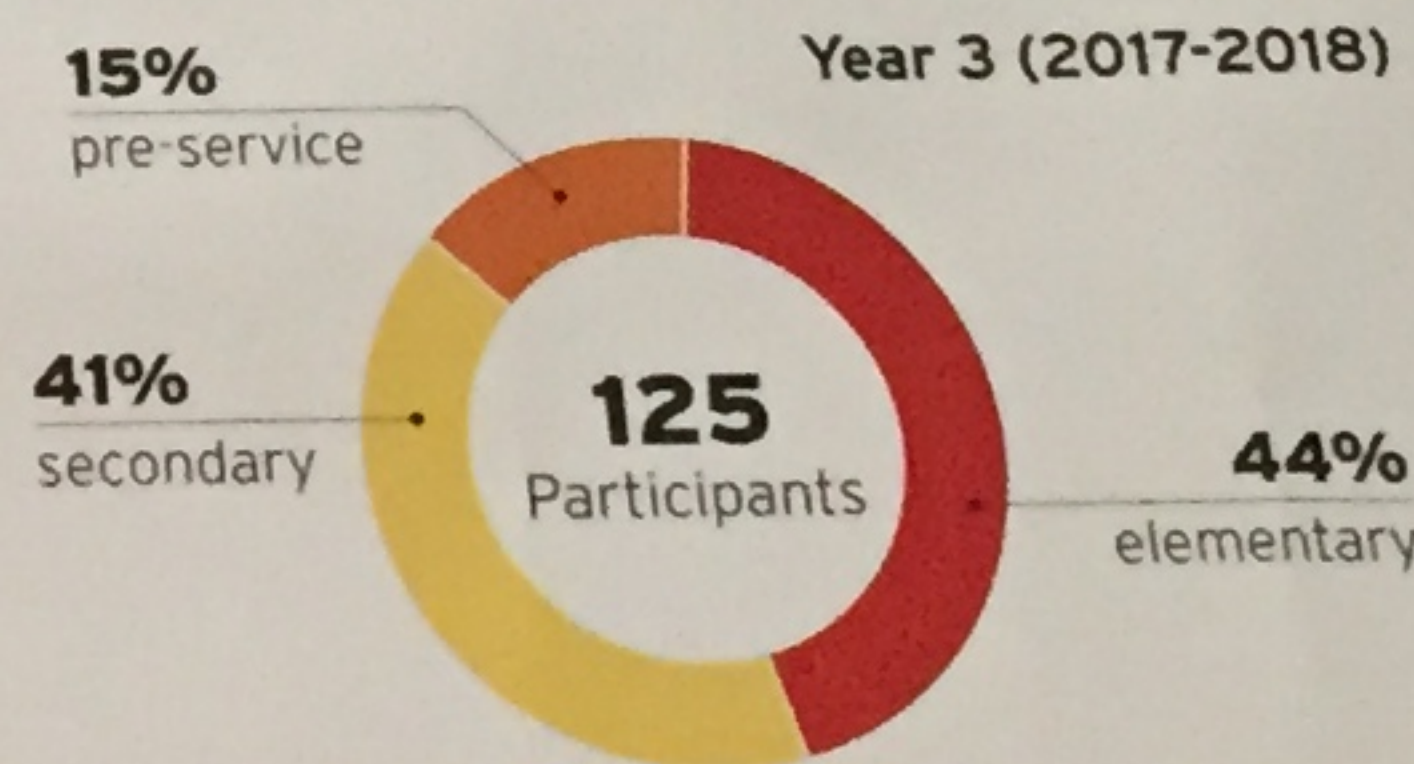
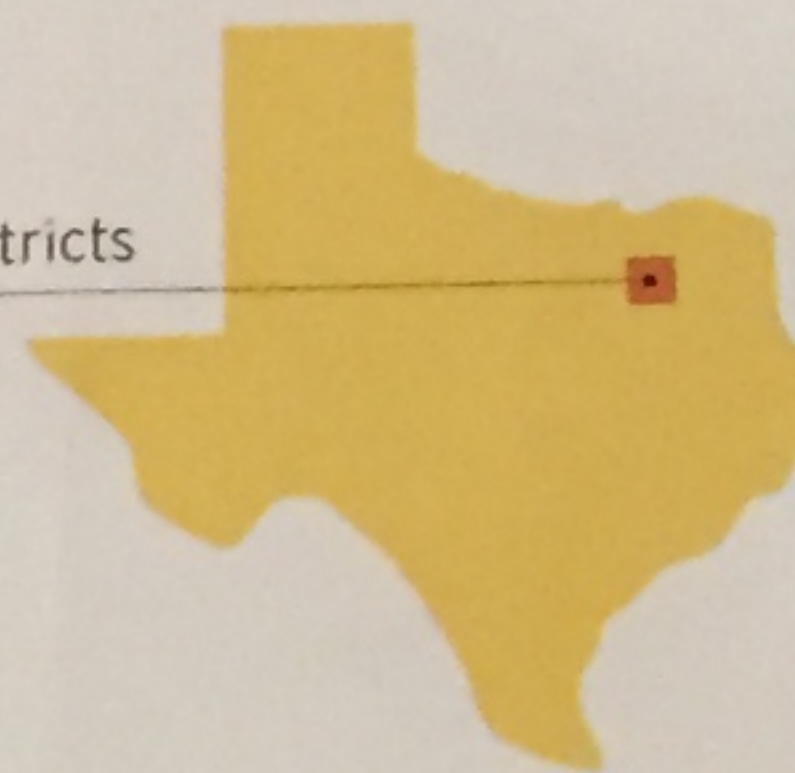
Participating teachers choose five Saturday workshops to attend during the school year. Two workshops are offered each month.



AUDIENCE

The Kosmos Energy STEM Teacher Institute is open to science teachers in the Dallas-Fort Worth metroplex. Participating teachers work in a variety of schools – charter, parochial, private, and public.

29
school districts
82
schools



PROGRAM GOALS

- Outcome 1: Consistent Learning Engagement**
80% of participants will attend the four-day summer program and at least five Saturday workshops.
- Outcome 2: Competent Knowledge of Science Concepts**
75% of participants will maintain or improve their knowledge of science concepts to above average.
- Outcome 3: Confidence Among Science Teachers**
75% of participants will report above average confidence and connections with fellow teachers.
- Outcome 4: Creative Teaching Science Instruction**
75% of enrolled teachers will report above average use of creative teaching strategies.

EVALUATION

The Perot Museum has contracted with the Bransom Working Group to conduct ongoing program evaluation. Evaluation tools include:

- MOSART Assessment Tool
- Teacher Confidence Index
- Teacher Creativity Index
- Student Interest Survey

Years 1-3 Growth Opportunities

Providing valuable learning experiences for educators with varied backgrounds and classroom needs
Supporting consistent attendance at Saturday workshops throughout the school year
Continually challenging educators who have participated in the Institute for multiple years

Year 4 Looking Ahead

Continual program evolution in response to teacher needs and feedback
Increasing flexibility of program requirements such as workshop formats and workshop attendance