

A map of Sinton, Texas, showing school district boundaries. The Sinton ISD is highlighted in light blue. Surrounding districts include Skidmore-Tynan ISD (Bee County, pink), Woodstone ISD (Refugio County, purple), Mettis ISD (orange), Odem-Ebrey ISD (pink), Tab ISD (orange), and Gregory-Portland ISD (yellow). Major highways shown include US-181, US-77, I-37, and I-35. The text "Sinton ISD" is overlaid in large black font, and "T-STEM Academy-Rural" is overlaid in a smaller grey font. "Established 2010" is written at the bottom in black font.

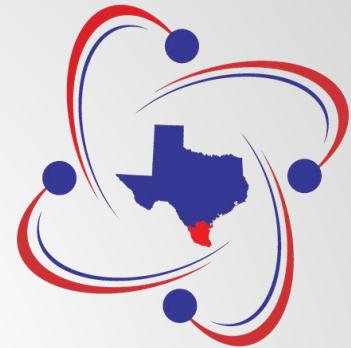
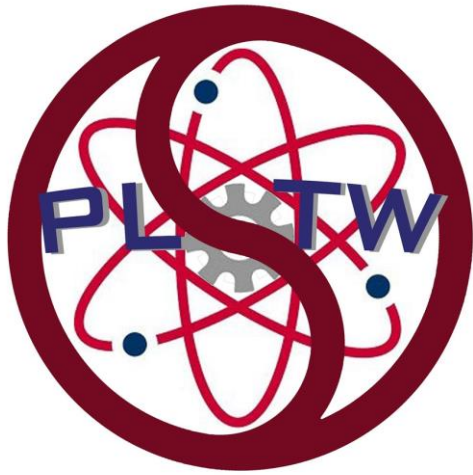
Sinton ISD

T-STEM Academy-Rural

Established 2010



Smith Middle School & Sinton High School



STEM Center of South Texas
Region One ESC

STEM



Science • Technology • Engineering • Math



Dreams. Delivered.



TEXAS A&M
UNIVERSITY
KINGSVILLE



Higher Education Partners

Who We are....650 Students in HS

Race/Ethnicity

- African American 2%
- Hispanic 83%
- White 15%
- Economically Disadvantaged 65.1%
- English Language Learners 0.9%
- Special Education 9.2%
- Mobility Rate 10.8%

We ARE....

Students involved in multiple “things”

- Agriculture Classes 200**
- Art 90**
- Athletics 300**
- Band 150**
- Choir 90**

Challenges

- Educate STEM Concept-continually
 - Parents
 - Students
 - Teachers
 - Community
 - Partners
- Landlocked by private landowners
 - Limits industry growth which in turn
 - Limits opportunities for students

Continued...

- Geographic challenges- only 30 miles....
 - Have to bring “in”
 - IHE will “not come”
 - Meetings with partners
 - Community
 - Partners
- Money
 - Limits industry growth which in turn
 - Limits opportunities for students

Dual Credit-*FREE

Fall--82 students--166 classes

Spring--79 students--151 classes

Choices for Dual credit:

- online
- 1 adjunct professor on high school campus
- Take students to Del Mar College Campus

STEM Endorsements

Courses leading to Science, Technology, Math, Engineering (**STEM**) endorsements all require Algebra II Physics in addition to the following courses

STEM endorsement with *5 science credits*

Biology

Chemistry

Physics

two more sciences

STEM Endorsements

❑ Courses leading to Science, Technology, Math, Engineering (**STEM**) endorsements all require Algebra II Physics in addition to the following courses

❑ STEM endorsement with *5 math credits*

❑ Algebra 1

❑ Geometry

❑ Algebra 2

❑ two more advanced math requiring Algebra 2

STEM Endorsements

❑ Courses leading to Science, Technology, Math, Engineering (**STEM**) endorsements all require Algebra II Physics in addition to the following courses

❑ STEM endorsement in *engineering*

❑ Introduction to Engineering Design

❑ Civil Engineering and Architecture

❑ Principles of Engineering

❑ Engineering Design and Development

STEM Endorsements

❑ Courses leading to Science, Technology, Math, Engineering (**STEM**) endorsements all require Algebra II Physics in addition to the following courses

❑ STEM endorsement in *Agriculture engineering*

❑ Introduction to Engineering Design

❑ Agricultural Mechanics and Metal Technologies

❑ Agricultural Power Systems

❑ Civil Engineering and Architecture

Advice to others who are starting their academy in a Rural setting

- **Find as many stakeholders as possible**
- **Educate your parents and community**
- **Think out of the box**
- **Don't try to do it on your own**

Continued...

- Investigate growth opportunities in your area
- keep your selling your program at EVERY opportunity...open house, any community event....invite them into your academy
- BELIEVE

3 Biggest Lessons Learned

- Educate Parents, Students Teachers/Staff a continually process “to buy in”
- Dual Credit, not always a good to accumulate “hours”; completion courses needed
- Being creative to provide opportunities “on a shoestring budget”

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