

2020 Fall T-STEM Advisory Board Meeting



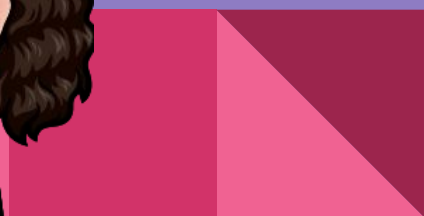


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Agenda

Update of Fabens High School T-STEM Academy

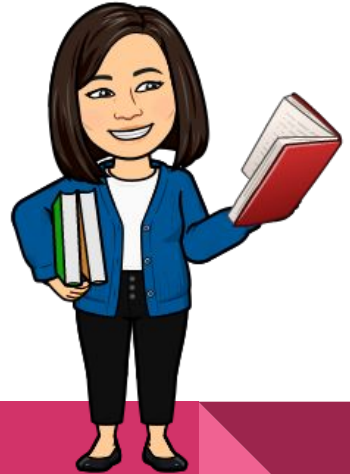
- o Virtual STEM Summer Camps
- o Girl Powered- Girls of the Valley
- o Software Development & Programming
- o Healthcare Therapeutics
- o Engineering
- o Competitions



Agenda continued...

Goals for 2020-2021

- o Parent Engagement
 - § Texas EcosySTEMS
- o Industry Partnership
- o Job Shadowing



2020 STEM Summer Camps

Sponsors: Prudential Financial, United Way, Lone Star STEM Grant, FISD

Materials for all five camps were sponsored by Prudential and United Way. United Way organized people who volunteered to be our second set of eyes during the camps. MS and HS teacher stipends were budgeted through the Lone Star STEM Grant. Elementary School teacher stipends were budgeted through FISD.

12 student : Fabens Elementary (2-3rd grade)

13 students: O'Donnell Intermediate (4-5th grade)

7 students: Fabens Middle School (6-8th grade)

9 students: STEAM Camp, Fabens HS; 7 students: STEM Camp, Fabens HS



Counselor's Corner

October 15: Texas State

October 12,18: College Fair

Perry Initiative one session per month

October 22: UNM Civil, Construction, Environmental Engineering

October 28: FAFSA

SAT: Universities using holistic approach, students can request a waiver to test.





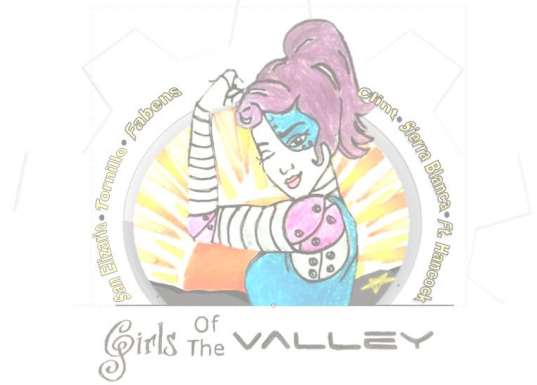
Girl⚡Powered

20/30 of girls from Fabens MS attended Eastwood's 5th Annual Girl Powered on October 9, 2020.



Girl Powered - Girls of the Valley

- What it was VS what it has to be
- Sponsorship
 - Volunteers: United Way
 - UTEP: breakout session speakers
 - Engineering
 - Tech-E
 - Medical
 - Texas Tech: guest speaker
 - El Paso Electric: breakout session speakers
 - Carl Daniel Architect: breakout session speakers
 - Region 19: industry guest speaker
- Date: November 20, 2020 10am - 12 noon
- Student Prizes per session
 - Ex. first to solve virtual lab



Programming and Software Development

- Lone Star Grant: \$50, 000
 - Expand our Computer Science (CS) program as one of the STEM endorsements
 - Teacher CS certifications: We_Teach_CS
 - 4 HS, 1MS
 - Supplies
 - Laptops, iPads, drones, Vex Robots, Spheros
 - Curriculum
 - Sphero Computer Science Foundation (8th grade)
 - Milestone C Robotics Curriculum
 - Teacher stipends for STEM Summer Camps
- 9th : AP Computer Science Principles
- 10th: Computer Science 1
- 11th: AP Computer Science A
- Robotics; Drones



Computer Science in Middle School

49 students: 6th Grade Tech Apps; Code.org

23 students: 7th Grade Tech Apps; CS First from google (scratch)

30 students: 8th Grade Fundamental of Computer Science; Sphero Computer Science Foundation



Healthcare Therapeutics

12 students % 2024

7 students % 2023

Graduates c/o 2020: 4 students

Perry Initiative Grant: Orthopedics In Action (OIA) curriculum

Texas Tech as an industry partner

EMT certification: Proaction Emergency Services Institute



Engineering

11 Freshman c/o 2024

7 sophomores % 2023

Graduates % 2020: 6 students

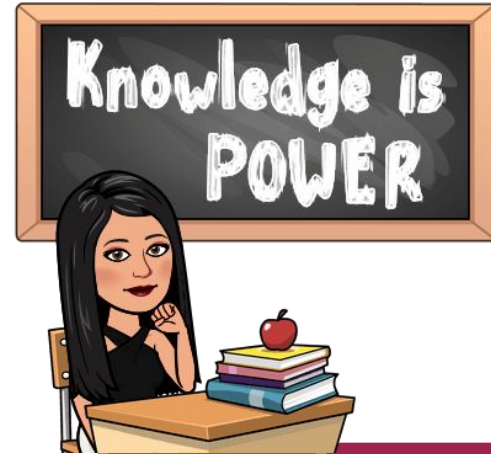
NASA Internship: Isaiah Gonzalez and Jennifer Yebra complete the on-line course.

UTEP: Virtual Hangout; Mechanical Engineering Department



STEM Club - Elementary Grades

- Virtual Family Night Camps
 - Packets with materials for paper projects: United Way
 - Virtual labs
 - Region 19 EcosySTEMS
- Alternating dates per campus



Competitions

- STTE Foundation Competitions
 - STTE Solar Mountain Challenge sponsored by El Paso Electric
 - STTE Sustainable Neighborhood sponsored by El Paso Electric

- Vex Robotics
 - First Year: 2 teams
 - One team made it to top 15 out of 42 teams!

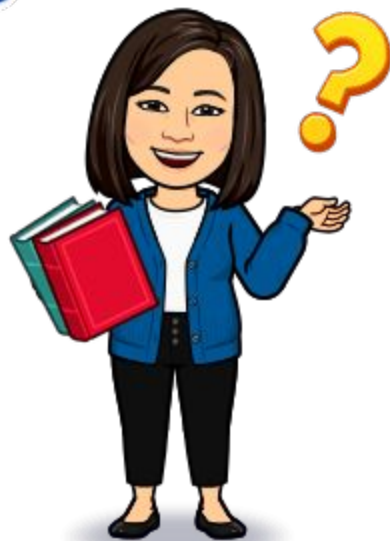


Goals for 2020-21

- Parent Involvement: increase!
 - Texas EcosySTEMS Region 19
 - Virtual STEM Parent Night
 - STEM “Kodak” Moment
- Industry Partnership
 - Add 2 more industries
 - Apply to Microsoft TEALS
- Job Shadowing/Internships
 - Real world career-related scenario from an industry partner.
 - Various checkpoints
 - One-on-one mentoring
 - Final product



any questions?



Thank you to our Administration, Counselor,
teachers, and STEM partners for all the support
and mentoring!

