

# Texas EcosySTEM Continuum Sample Experiences



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13-16

17-20

Communication, Creativity, Collaboration, Critical Thinking, Resilience

Promptness, Time Management, Adaptability, Innovative

## STEM Awareness

## STEM Exploration

## STEM Application

### Formal Education:

- Primary Design Challenges
- STEM Speakers
- Career Play Centers
- Science Exploration Center
- Engineering Center
- Career Dress Up Center
- STEM Role Playing Games
- Story Books on Careers
- Story Book Based Challenges

### Informal Education:

- STEM Focused Field Trips
- STEM Camps
- STEM Library Events
- STEM Museum Programs
- Girl Scout STEM Badges
- YMCA Youth STEM Programming

### Family Events:

- Moms in the Maker Space Event
- Family Learning Event
- STEM Night of Activities
- STEM Theme Night
- STEM at Home
- “Living” Career Museum

### Formal Education:

- Intermediate Design Challenges
- Engineering/Maker Fairs
- STEM Speakers
- STEM Focused Project-based Learning
- 5<sup>th</sup> Grade Interest Surveys with Student Led Parent Conference
- 3<sup>rd</sup> Grade Strength Finder Test
- Lunch and Learn with STEM Expert
- STEM Pen Pals with STEM Professionals (2<sup>nd</sup>)

### Informal Education:

- STEM Worksite Tours
- After School STEM Programs
- Girl Scout STEM Center
- Girl Scout STEM Badge System
- STEM Scouts (Boy Scouts)
- After School Network STEM Program
- Virtual Presentations/Demonstrations

### Family Events:

- Extreme Half-Day STEM Event
- Dads & Design Event
- Go to Work with a Parent Day
- Family Code Events
- Local STEM Events
- STEM Open House

### Formal Education:

- Engineering Challenges with Career Problems Introduced
- Career Roles in Team Projects
- STEM Competitions
- STEM Focused Project-Based Learning
- 7<sup>th</sup> Grade Interest Surveys with Student Led Parent Conference
- Select STEM Endorsement (end of 8<sup>th</sup>)

### Informal Education:

- Job Shadowing
- Worksite Tours
- Explorer Posts (Boy Scouts)
- iFly STEM Program
- Civil Air Patrol USAF Auxiliary
- Cybersecurity Events
- Coding Camps
- Virtual Fieldtrips
- Boy Scouts Explorer Program

### Family Events:

- Family Makerspace Challenge
- Local STEM Events
- Career themed trips/vacations/tours
- STEM Movie Night
- STEM Family Lunch and Learn

### Formal Education:

- Diverse STEM HS Pathway with academic and technical classes
- Electronic Portfolio
- Mock Interviews
- Senior Group Project/Challenge
- Campus Student Badges with Future Career
- STEM Competitions
- Credential and/or license attainment
- Associates Degree and/or Bachelors Degree

### Informal Education:

- Boy Scouts Explorer Internships
- Join STEM Organizations
- US Naval Sea Cadet Corp STEM Camps
- Volunteer with STEM organizations
- Governor’s Science and Technology Champions Academy

### Family Events:

- University/College Tours (10<sup>th</sup>)
- Career themed trips/vacations/tours
- Virtual STEM Show and Tell
- STEM Family Homework