

Sample PK-20 STEM Experience Continuum



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:

- Family Learning Event
- Mom's in the Makerspace Event
- STEM Night of Activities
- STEM Theme Night
- STEM at Home
- "Living" Career Museum

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Formal Education:

- Intermediate Design Challenges
- Engineering/Maker Fairs
- STEM Speakers
- STEM Focused Project-Based Learning
- 5th Grade Interest Surveys with Student Led Parent Conference
- 3rd Grade Strength Finder Test
- Lunch and Learn with STEM Expert
- STEM Pen Pals with STEM Professionals

Informal Education:

- STEM Worksite Tours
- After School STEM Programs
- Girl Scout STEM Center
- Girl Scout STEM Badge System
- STEM 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
- 7th Grade Interest Surveys with Student Led Parent Conference
- 8th Grade Select STEM Endorsement

Informal Education:

- Job Shadowing
- Worksite Tours
- Explorer Posts
- iFly STEM Program
- Civil Air Patrol USAF Auxiliary
- Cybersecurity Events
- Coding Camps
- Virtual Field Trips
- TAME Trail Blazer Program

Family Events:

- Family Makerspace Challenge
- Local STEM Events
- Career Themed Trips/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:

- Explorer Internships
- Join STEM Organizations
- US Naval Sea Cadet Corp STEM Camps
- Volunteer with STEM Organizations
- Governor's Science and Technology Champions Academy
- TAME STEM Competitions

Family Events:

- 10th Grade University/College Tours
- Career Themed Trips/Tours
- Virtual STEM Show and Tell
- STEM Family Homework