



## Partner Pathways Overview and Participation Ideas

The STEM Exploration Night event and experiences are organized by Pathways to help scholars explore their college and career interests in STEM. These pathways reflect the statewide CTE programs of study and career clusters available for our scholars. In addition, STEM Exploration Night provides opportunities for scholars to engage in STEM-related post-secondary planning through the College and Career pathway. In this document, you will find information and examples of each pathway and how partners participate.

**Click the links below to explore the STEM Exploration Night Partner Pathways:**

- [Agriculture Education](#)
- [Family and Consumer Sciences](#)
- [Business and Marketing](#)
- [Health Sciences](#)
- [Skilled and Technical Sciences](#)
- [College and Career](#)

## AGRICULTURE EDUCATION

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Focuses on the essential elements of life, food, water, land, and air. This pathway includes a diverse spectrum of occupations ranging from farmer, wastewater treatment plant operator and veterinarian to geologist, land conservationist, landscape designer, and florist. It also includes nontraditional agricultural occupations like wind energy, solar energy, and oil and gas production.

### [FWPS Agriculture Education Pathway Video](#)

*Examples of how to get involved:*

- *Offer a mini workshop to explain how plant room systems work, and bring plant kits of dirt, seeds, and recycled cardboard pot as SWAG.*
- *At a booth, provide a demonstration of wind energy using mini turbines, and play a looping informational video*

## FAMILY AND CONSUMER SCIENCES

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Focuses on the relationship between households to their environment. This program of study integrates studies in human development, family dynamics, food, health, and wellness. Some careers within this pathway include a chef, baker, food production manager, library technician, and facilities manager.

### [FWPS Family and Consumer Sciences Pathway Video](#)

*Examples of how to get involved:*

- *Offer a mini workshop on evaluating nutrition information and food plans.*
- *At a booth, provide a demonstration of management of financial resources to meet the goals of individuals and families across the life span.*
- *Provide mini kits or recipes*

## BUSINESS AND MARKETING

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Focuses on running your own business or supporting making a business successful. Some careers in this pathway include web developer or designer, computer technicians, stockbroker, accountant, marketing manager, and more.

### [FWPS Business and Marketing Pathway Video](#)

*Examples of how to get involved:*

- *At a booth, provide resources and information about your marketing services*
- *Activity where scholars develop their own design of a sneaker*
- *Provide unplugged experiences for participants around computational thinking*

## HEALTH SCIENCES

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Promotes health and wellness and focuses on planning, managing, and providing therapeutic services, diagnostics services, health informatics, support services and biotechnology research. Careers may include working directly with a patient to diagnose and treat injuries and disease or working behind the scenes in a laboratory or administrative role. Examples include an anesthesiologist, dentist, speech pathologist, pharmacist, and nurse.

### [FWPS Health Sciences Pathway Video](#)

*Examples of how to get involved:*

- *A dental booth with a model of teeth*
- *A surgery booth with information about the human body and a few games of Operation*
- *A booth showing bone fractures, explaining the types and healing process*

## SKILLED AND TECHNICAL SCIENCES

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Focuses on designing, producing, planning, managing and maintaining the built environment, or processing materials into final products. Including the Arts, A/V Technology and Communication Career Cluster, where scholars apply artistic talent to practical problems and learn visual arts principals that equip scholars with the skills and techniques to work in any number of creative design and entertainment fields. Examples include an architect, civil engineering, construction & building inspector, graphic designer, and painter.

### [FWPS Skilled & Technical Sciences Pathway Video](#)

*Examples of how to get involved:*

- *Provide a hands-on activity for students to build a structure out of materials then test the durability of their design with a small shake table*
- *Create a simulation of a work project for students to explore*
- *Showcase a 3d model of buildings your organization has built or designed*

## COLLEGE AND CAREER

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This pathway will feature two-year colleges, four-year university, trade/vocational school, apprenticeships, workforce, and military. They will showcase opportunities for high school graduates to work in or train for a STEM field, focused on high school juniors and seniors.

*Examples of how to get involved:*

- *Provide information to scholars on STEM related post-secondary programs*
- *At booths, support families and scholars with accessing possible internships and program planning*