



CAREER AND



TECHNICAL



STUDENT



ORGANIZATIONS

ARE



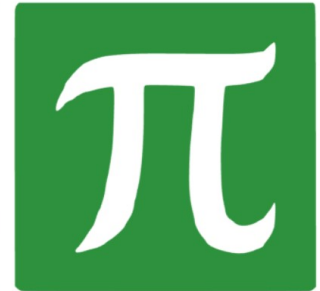
SCIENCE



TECHNOLOGY



ENGINEERING



MATHEMATICS

CTSOs play an integral role in Career, Technical, and Agricultural Education (CTAE).

Develop STEM/STEAM Literacy Skills

- Critical Thinking
- Reasoning
- Collaboration
- Problem Solving
- Creativity

Model STEM/STEAM Experiences

- Problem-Based
- Project-Based
- Challenge-Based

	STEM/ STEAM	CTSOs
Project- and Problem-Based Learning	✓	✓
Integrated Math, Science, CTAE, and for STEAM, Fine Arts Instruction	✓	✓
Strong Business, College, and Community Partners	✓	✓
Students Conduct Investigative Research	✓	✓
Collaborative Planning Time	✓	✓

CTSO Goals

- ⇒ Plan and implement programs that support CTAE curriculum.
- ⇒ Assist in developing professionalism/pride by participation in school and community projects through networking with business and industry.
- ⇒ Maintain communication and collaborative efforts with teachers on the local level.
- ⇒ Provide opportunities for college and career readiness.
- ⇒ Promote programs in the community.
- ⇒ Provide leadership development and emphasize employability skills
- ⇒ Strengthen academic skills, as well as career and technical skills, by providing contextual learning experiences as part of classroom activities.

Benefits for School Districts

Students are better prepared academically and socially for college and careers · Students have a positive impact on the school and community · CTSOs foster relationships between school district and local businesses · Students develop career readiness skills · Pride and recognition accrue to the school district

Benefits for Educators

Advisors · Academic programs gain value from a CTSO · Student interest in CTSOs positively impacts course enrollments · Support from and networking with other advisors is enhanced · Personal satisfaction results from watching students grow and succeed · Common Core State Standards are reinforced through student involvement in CTSOs

Benefits for Business & Community Leaders

CTSOs are a source of future employees · CTSOs provide a forum to communicate their needs regarding the preparation of future employees · Creative ideas and new perspectives are brought to business and community by CTSOs · Business participation with CTSOs fosters positive community minded image.

Numerous Competitive Opportunities Aligned to STEM & STEAM Education

- ◆ Agricultural Science
- ◆ Healthcare Science Technology
- ◆ Drafting and Design
- ◆ Construction Technology



- ◆ Financial Literacy
- ◆ Community Giving
- ◆ Innovation Plan
- ◆ Accounting Applications
- ◆ Stock Market Challenge



- ◆ Cyber Security
- ◆ Web Design
- ◆ Network Design
- ◆ Financial Math
- ◆ Securities & Investments
- ◆ Economics
- ◆ Accounting



- ◆ Applied Math for Culinary Management
- ◆ Fashion Construction
- ◆ Food Innovations
- ◆ Entrepreneurship



- ◆ Agricultural Technology & Mechanical Systems
- ◆ Agronomy
- ◆ Food Science & Technology



- ◆ Technical Path
 - ◆ All things Robot
- ◆ Non-technical Path
 - ◆ Business, Marketing, Web Design, and Outreach



- ◆ Biomedical
- ◆ Epidemiology
- ◆ Forensic Science
- ◆ Medical Innovation
- ◆ Physical Therapy
- ◆ HOSA Bowl



- ◆ Cabinetry
- ◆ Carpentry
- ◆ Computer Programming
- ◆ Diesel Equipment Technology
- ◆ Mechatronics



- ◆ All TSA events are aligned to STEM Standards
- ◆ Architectural Design
- ◆ Engineering Design
- ◆ Biotechnology Design



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