



# STEM

Fall 2016 & Spring 2017  
Professional Development





# STEM Professional Development Workshops

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## **Setting the Standard: Building a STEM Culture**

Fee: \$100 / STEM Foundations Coop \$0

September 8, 2016 | Session ID: 41847

Building a STEM program can be like navigating a educational minefield. Where do you start? What should it look like? What should it sound like? Join us in discovering how to create the right STEM culture that drives your program to be successful. In this 6 hr. PD, participants will identify how to align a campus' core values with the culture they desire by incorporate specific STEM essentials. Every member of your STEM team will leave feeling they have the right information in order to help design the culture they need.

## **STEM IMPLEMENTATION: Thinking Through PBL COOP Days 1, 2**

Fee: \$200 / STEM Foundations Coop \$0

September 30 – October 1, 2016 | Session ID: 41849

The STEM IMPLEMENTATION COOP is intended to provide a deeper understanding of STEM programs and curriculum. Cadres will be built to provide a true STEM environment where each STEM program can be supported and strengthened through a network of other STEM professionals. Together, teachers will be guided through building and maintaining curricular resources to ensure the strength of their program. In total, cadres will meet 6 days throughout the year.

6 Cadre Dates: Sep 30 - Oct 1, Dec 2 - 3, Jan 13 - 14

## **STEM Leaders: Coaching Series Day 1**

Fee: \$100 / STEM Foundations Coop \$0

October 6, 2016 | Session ID: 41859

STEM Leaders is intended to foster growth and build capacity within STEM Leaders. School teams comprised of 4 Teachers and 1 Administrator/STEM Leader will be supported and directed through a STEM Leadership Model designed at empowering every member of their STEM Team.

Coaching Dates Oct. 6, Oct. 14

## **Sketch Up For Beginners**

Fee: \$100 / CTE Coop \$50 / CTE SSA \$0

October 11, 2016 | Session ID: 40313

Sketch Up is a three dimensional rendering program that enables students to create 3D images that can be placed in Google Earth or even bring to life with 3D printers.

## **STEM Leaders: Coaching Series Day 2**

Fee: \$100 / STEM Foundations Coop \$0

October 14, 2016 | Session ID: 41860

STEM Leaders is intended to foster growth and build capacity within STEM Leaders. School teams comprised of 4 Teachers and 1 Administrator/STEM Leader will be supported and directed through a STEM Leadership Model designed at empowering every member of their STEM Team.

Coaching Dates Oct. 6, Oct. 14

### **Adobe Premier**

Fee: \$100 / CTE Coop \$50 / CTE SSA \$0

October 20, 2016 | Session ID: 40315

This is an overview of editing in Adobe Premiere Pro. In this workshop participants will learn the fundamentals of editing with Premiere Pro by working with projects. Participants will leave the class with an understanding of how to create, organize, edit, and export a project with Adobe Premiere.

### **STEM Foundations: PBL Foundations for Teachers**

Fee: \$175 / STEM Foundations Coop \$0

October 27 – 29, 2016 | Session ID: 41861

Project-Based Learning is a dynamic approach to teaching in which students explore real-world problems and challenges. With this type of active and engaged learning, students are inspired to obtain a deeper knowledge of the subjects they're studying. This session will take place over three days and is aimed at educational leaders and campus administrators. Participants will learn the fundamentals of the PBL Framework, how to build great PBL's, team building, and ultimately how to be an effective leader at a PBL campus.

### **Adobe Photoshop**

Fee: \$100 / CTE Coop \$50 / CTE SSA \$0

November 15, 2016 | Session ID: 40316

Photoshop was originally designed for editing print images and has since morphed into the industry standard for so much more. It's not just for digital artists any more, it's for anyone who creates web pages or presentations – or who has even taken a picture. In this workshop, participants will learn how to paint and edit images; how to use brushes and pen tools; how to rotate, scale and distort – and so much more.

### **Adobe Illustrator**

Fee: \$100 / CTE Coop \$50 / CTE SSA \$0

November 15, 2016 | Session ID: 40318

This hands-on, instructor-led Adobe Illustrator training workshop course will help participants learn the industry standard vector graphics creation software for print and the web.

### **PBL Overload: Designing Like An Engineer**

Fee: \$100 / STEM Foundations Coop \$0

December 1, 2016 | Session ID: 41888

The best way to get a deep understanding of STEM is to feel the power of the design process. As STEM Educators, our challenge is incorporating a process mentality in our classes while meeting the rigor of the TEKS. In this session, teams of participants will be challenged and guided through the engineering design process to solve a real world problem. Participants will walk away with strategies, modeled activities and classroom connections that can be applied immediately. Join the challenge to Design Like An Engineer!!

**STEM IMPLEMENTATION: Thinking Through PBL COOP Days 3, 4**

Fee: \$200 / STEM Foundations Coop \$0

December 2 – 3, 2016 | Session ID: 41851

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6 Cadre Dates: Sep 30 - Oct 1, Dec 2 - 3, Jan 13 - 14

**STEM Leaders: Building and Maintaining a STEM Pipeline Day 1**

Fee: \$100 / STEM Foundations Coop \$0

December 8, 2016 | Session ID: 41881

STEM Leaders is intended to foster growth and build capacity within STEM Leaders. School teams comprised of 4 Teachers and 1 Administrator/STEM Leader will be supported and directed through a STEM Leadership Model designed to empower every member of the STEM Team. In this series, STEM Leaders will be given the tools to build and maintain a pipeline in order to see sustained success. Let's work together to grow or enhance your STEM program.

**STEM Leaders: Building and Maintaining a STEM Pipeline Day 2**

Fee: \$100 / STEM Foundations Coop \$0

December 15, 2016 | Session ID: 41882

STEM Leaders is intended to foster growth and build capacity within STEM Leaders. School teams comprised of 4 Teachers and 1 Administrator/STEM Leader will be supported and directed through a STEM Leadership Model designed to empower every member of the STEM Team. In this series, STEM Leaders will be given the tools to build and maintain a pipeline in order to see sustained success. Let's work together to grow or enhance your STEM program.

**iPad Basic For CTE Instructors**

Fee: \$50 / CTE Coop \$50 / CTE SSA \$0

January 12, 2016 | Session ID: 40319

This workshop introduces participants to the basic functionality of iPads, as well as to discuss potential apps available for the device. This workshop will provide participants (both instructors and administrators) the opportunity to focus on the educational potential of the mobile computing devices (and to share it with your students).

**STEM IMPLEMENTATION: Thinking Through PBL COOP Days 5, 6**

Fee: \$200 / STEM Foundations Coop \$0

January 13 – 14, 2016 | Session ID: 41855

The STEM IMPLEMENTATION COOP is intended to provide a deeper understanding of STEM programs and curriculum. Cadres will be built to provide a true STEM environment where each STEM program can be supported and strengthened through a network

of other STEM professionals. Together, teachers will be guided through building and maintaining curricular resources to ensure the strength of their program. In total, cadres will meet 6 days throughout the year.

6 Cadre Dates: Sep 30 - Oct 1, Dec 2 - 3, Jan 13 - 14

### **App Inventor For Android**

Fee: \$100 / CTE Coop \$50 / CTE SSA \$0  
January 24, 2016 | Session ID: 40320

Learn how to build android apps with free, web based development tools. In this course you will learn how to build Android Apps using an easy to use drag and drop android app development platform. The workshop is for beginners and will get you building apps quickly (and your students will too!)

### **PBL Overload: Designing Like An Engineer**

Fee: \$100 / STEM Foundations Coop \$0  
January 24, 2016 | Session ID: 41889

The best way to get a deep understanding of STEM is to feel the power of the design process. As STEM Educators, our challenge is incorporating a process mentality in our classes while meeting the rigor of the TEKS. In this session, teams of participants will be challenged and guided through the engineering design process to solve a real world problem. Participants will walk away with strategies, modeled activities and classroom connections that can be applied immediately. Join the challenge to Design Like An Engineer!!

### **Sketch 3 For Beginners and Intermediates**

Fee: \$50 / CTE Coop \$50 / CTE SSA \$0  
February 7, 2017 | Session ID: 40322

Sketch 3 is an easy to use and powerful graphic design tool for the Mac. It is quickly becoming the standard for many digital professionals and agencies because it was specifically made for them and their unique needs. Using Sketch 3 you can draw and style objects, and organize content. Sketch 3 is an excellent alternative to Adobe Illustrator and other visual design programs. Very affordable, Sketch 3 can be purchased for about \$99 in the App store.





# CTE Classroom Management Series

## **CTE Classroom Management Series:**

### **Starting Point!**

\$100 CTE Coop \$50 / CTE SSA \$0 / STEM Coops \$50

February 15, 2017 | Session ID: 40317

8:30am – 3:30pm

It is no surprise that today's students come to our classrooms with more challenges than ever before. In this session participants will learn practical classroom management skills to help with the behaviors that come with these challenges. You will learn how to develop classroom procedures and routines, thus spending time managing your class, not disciplining your class; and you will become a more effective and efficient teacher. Your student will be more focused and flourish in a safe and consistent environment. Attend this session and walk away with the tools to keep both you and your students motivated to learn. Behavior can be changed.

*The scientific-based research used in this session is from Randy Sprick, Harry Wong, Barbara Blackburn, Robert Marzano, Marcia Tate, and Willard Daggett and states students learn best when they are focused, engaged and can relate the learning to real-life application thus increasing motivation and academic success*

## **CTE Classroom Management Series:**

### **Positive Strategies to Change Behavior**

\$100 CTE Coop \$50 / CTE SSA \$0 / STEM Coops \$50

March 1, 2017 | Session ID: 40324

8:30am – 3:30pm

Classroom Management remains the number one issue for ALL teachers, but it doesn't have to be! Learn the different types of behavior to have a positive and proactive approach that REALLY works for each of the different types of misbehaviors and where discipline does NOT have to be an issue. This engaging and hands-on session will offer participants several strategies that will allow them to have classrooms that are orderly, respectful, fun, engaging, and motivating!

*The scientific-based research used in this session is from Kathleen McConnell, Gail Ryser, James Patton, Randy Sprick, Harry Wong, Barbara Blackburn, Robert Marzano, Marcia Tate and Willard Daggett who state students learn best when they are focused, engaged and can relate to learning through real-life application thus increasing motivation, academic success, and decreasing difficult behaviors.*

## **CTE Classroom Management Series:**

### **Develop Self-Directed Students**

\$100 CTE Coop \$50 / CTE SSA \$0 / STEM Coops \$50

November 8, 2016 | Session ID: 40326

March 30, 2017 | Session ID: 40327

8:30am – 3:30pm

In this session participants will transform their classroom into a high-performing learning environment where students become self-directed, independent thinkers, problem-solvers, and successful! Students set time-bound measurable learning targets, identify strategies to successfully meet the targets, study the results that measure the target, and act on the results. Participants will learn how to successfully use classroom

data, individual student data, and student-led conferences that can be utilized during parent meetings and/or ARD meeting. This system is the most effective way to improve classroom learning results. Participants will see actual classroom examples and develop a draft plan for improvement.

*The scientific-based research used in this session is from Malcolm Baldrige Education Criteria for Performance Excellence which focuses on the best current research in what it takes to make schools and classrooms quality learning places for ALL students.*

### **CTE Classroom Management**

#### **Series: Building Relationships Manages Behavior**

\$100 CTE Coop \$50 / CTE SSA \$0 / STEM Coops \$50

December 7, 2016 | Session ID: 40508

May 2, 2017 | Session ID: 40509

8:30am – 3:30pm

In this session, participants will learn how to build positive relationships with students, set limits to enhance the learning environment, avoid arguing and power struggles with students by giving them choices and teach them how to solve their own problems.

*The scientific-based research used in this session is from Love and logic, Kathleen McConnell, Gail Ryser, James Patton, Randy Sprick, Harry Wong, Barbara Blackburn, Robert Marzano, Marcia Tate and Willard Daggett who states students learn best when they are focused, engaged and can relate to learning through real-life application thus increasing motivation, academic success and decreasing difficult behaviors.*

### **CTE Instructional Technology Series:**

#### **Powerful Research-Based Strategies that Work!**

\$100 CTE Coop \$50 / CTE SSA \$0 / STEM Coops \$50

January 19, 2017 | Session ID: 40510

May 16, 2017 | Session ID: 40511

8:30am – 3:30pm

In this powerful session participants will learn research-based strategies that will help maintain the classroom in a positive and practical way and create a cohesive atmosphere of engaged learners. Learn how to manage situations with a positive outcome! With the challenges of today, classroom management is a must! This session will bring practical strategies to life in a positive, engaging and fun way. Shaping behavior in a positive way increases learning and truly is positive for ALL!

*The scientific-based research used in this session is from Randy Sprick, Harry Wong, Barbara Blackburn, Robert Marzano, Marcia Tate and Willard Daggett and states students learn best when they are focused, engaged and can relate the learning to real-life application thus increasing motivation.*



## For more information, please contact:

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All sessions will be held at  
ESC-20 unless otherwise indicated.

## TO REGISTER

1. Go to <https://txr20.escworks.net/>.
2. Enter the SESSION ID or KEYWORD into the search box.
3. If you do not have a CONNECT20 account you will be prompted to create one.



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