



## 2025 CTE Summer Swap Academy

*hosted by Maize Career Academy  
facilitated by Kansas Center for CTE*



### **Empowering Educators: Integration of Inclusive STEAM Education for All Learners**

Developed for: K-6 Elementary & STEAM Teachers

In this session, participants will discover creative ideas for implementing STEAM (Science, Technology, Engineering, Art, and Math) in K-6 classrooms. They will engage in hands-on challenges, explore modifications for different grade levels, and learn strategies for integrating STEAM into everyday lessons, regardless of the curriculum. Educators will be equipped with the tools to create inclusive, engaging, and equitable STEAM experiences that promote creativity, critical thinking, and collaboration for all students.

#### **Specific topics that will be addressed:**

- Hands-on engineering design activities, with practical tips for adapting projects to meet the needs of all students.
- Create modifications and accommodations to differentiate STEAM activities, ensuring accessibility and success for diverse learners.
- Experience different STEAM-integration methods, including standards-based and theme-based approaches, to identify the best fit for your classroom's needs and goals.
- Participate in hands-on sample STEAM activities and projects that are ready to implement in your classroom.
- Develop technology-based activities and tools that enhance STEAM learning, with tips on how to integrate them effectively into your classroom.
- Learn the basics of 3D design and printing, and discover how to incorporate these innovative tools into your classroom.
- Engage in team-building lessons designed to develop collaboration, communication, and problem-solving skills, helping students work effectively together in STEAM activities.

#### **Participants will leave with:**

- A toolkit of STEAM lesson ideas to use in their own classrooms
- Outlines of presented lesson examples: printed & digital
- Team building ideas to grow in collaboration & rapport
- 3D printed project designed by you

#### **Participants will need to bring:**

**Lesson Swap:** Time will be built in to share and trade your favorite lesson plan/activity **relating to your current experience with STEAM. Please bring 15 copies of ONE lesson plan/activity!**

**Laptop & charger:** to access information and websites used in sessions.

**Supplies:** Current grade-level standards, theme or lesson(s) you want to STEAM-ify



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### About the Presenters

**Samantha Kempf** teaches 6th-grade STEAM at Maize Intermediate School and brings 15 years of diverse teaching experience spanning self-contained elementary classrooms and subject-specific roles in science, math, and STEAM. Her adaptability and dedication to innovation have led her to collaborate with her high school's career academy to integrate Career and Technical Education (CTE) into her curriculum. Samantha has participated in professional development opportunities such as Textron Aviation's Externship, the *We Build It Better* program, and the Kansas Tech Summit. She has also partnered with the Astronomical Society of the Pacific and helped develop STEAM curriculum for the Maize District. Outside the classroom, Samantha stays active teaching at the YMCA, supporting her children's sports, volunteering with Scouts of America, and enjoys traveling during the summer break.

**Maggie Hatesohl** teaches 5th-grade STEAM at Maize Intermediate and has 6 years of teaching experience, including roles in 5th grade, 5th/6th science, and STEAM. She has earned a master's degree as an Instructional Specialist in Elementary STEM from Emporia State University and serves as an ambassador for the Teacher Innovator Institute from the Smithsonian Air and Space Museum. Maggie has participated in Textron Aviation's Externship and the Kansas Tech Summit. She has also collaborated with the Astronomical Society of the Pacific and contributed to curriculum development for the Maize District's STEAM programs. In her spare time, Maggie is an avid reader, enjoys traveling to new places with her husband, and is a proud aunt who loves spending time with her nieces and nephews.