Using AI for STEM - LIVE AGENDA

Drs. Andrea & Mike Borowczak & **Alicia Thoney** CS '24, CpE MS '26

WORKSHOP 01 · APRIL 11, 2026 : https://www.cxedhub.com/pds/craft-pd-series/workshop-1-ai-for-stem/

8:30 AM – 12:00 PM PDT · Virtual · CRAFT PD Series

QUICK LINKS

- 📝 Pre-Survey https://ucf.qualtrics.com/jfe/form/SV_bq1qU641tSt7O0S
- 📂 Shared Google Doc https://docs.google.com/document/d/11sYpp3Ho0PUEOwjro4M5fkpMwp-9XPLo/edit
- 🤖 ChatGPT https://chat.openai.com | 🤖 Claude https://claude.ai | 🤖 Gemini https://gemini.google.com
- 📄 Lesson Template https://www.cxedhub.com/pds/craft-pd-series/resources/lesson-template.html
- 📊 Post-Survey [live at end of session] https://ucf.qualtrics.com/jfe/form/SV_eEswd3p2cnnrZVs

TIME BUDGET Facilitator-led: 28 min · You're doing: 162 min · Breaks: 20 min

Using AI for STEM - LIVE AGENDA

Drs. Andrea & Mike Borowczak & **Alicia Thoney** CS '24, CpE MS '26

AGENDA

8:30	YOU DO 5 min	**Icebreaker: Drop It in Chat**	Introduce yourself and tell us what's one thing you've tried with AI — or one thing you're curious about? No wrong answers.
8:35	ADMIN 5 min	**Pre-Survey**	Quick pre-survey while we get everyone settled. Already done? Continue the icebreaker intro!
8:40	LISTEN Contextualize 5 min	**The CRAFT Cycle & Where AI Lives**	Quick intro to the CRAFT framework (C→R→A→F→T) — today's session IS one, and you'll learn to build your own. Plus: where AI actually shows up in STEM careers right now.
8:45	YOU DO Contextualize 10 min	**Brainstorm: AI in Your World**	In the shared doc, add to the table: Where have you (or your students) encountered AI in a STEM context? Star anything that surprised you in someone else's entry. Be ready to share one highlight.
9:00	YOU DO Reframe 1 min	**Poll: What Do You Believe About AI?**	Vote honestly — no judgment here. We'll look at the results together.
9:03	LISTEN Reframe 3 min	**Myth-Busting: An Engineer's Take**	We'll look at the poll results and reframe the big myths. Spoiler: AI is a co-pilot, not an autopilot.
9:05	YOU DO Reframe 12 min	**Breakout: Your Biggest AI Concern**	In small groups, discuss: What's the #1 barrier to using AI in your classroom? (Admin policy? Student misuse? Your own comfort?) Capture the group's top concern and one possible reframe in the shared doc.
9:20	BREAK 10 min	**Break #1**	Stretch, refill coffee. Check chat for a terrible AI-generated STEM dad joke.

Using AI for STEM - LIVE AGENDA

Drs. Andrea & Mike Borowczak & **Alicia Thoney** CS '24, CpE MS '26

9:25	LISTEN **Assemble** 10 min	**I Do: Prompt Engineering Demo** Watch the same prompt entered into ChatGPT, Claude, and Gemini side-by-side. Pay attention to prompt anatomy: role, task, constraints, format. Notice what's different across platforms.
9:35	YOU DO **Assemble** 15 min	**Guided Practice: Your Engineered Prompt** Using the prompt template in the shared doc, write a prompt for YOUR subject and grade band. Enter it into any LLM. Paste the result into the shared doc and note: what's good, what's wrong, what's missing?
9:55	YOU DO **Assemble** 25 min	**Breakout: Cross-Platform Prompt Lab** In your group, take the same base prompt and each enter it into a different LLM platform. Compare results in your group's shared doc section. Discuss: Which gave the most useful output? What did you have to fix? Prepare one "aha" and one "uh-oh" for share-out.
10:15	YOU DO **Assemble** 5 min	**Share-Out: Ahas & Uh-Ohs** Each group shares their best "aha" and worst "uh-oh" from the cross-platform comparison.
10:20	YOU DO **Assemble** 25 min	**Build: Customize Your Lesson Template** Open the STEM lesson template. Pick the standards frameworks that match your discipline — CSTA, NGSS, CCSS Math, CCSS ELA, ISTE, or others — using the searchable picker (search by keyword, no need to memorize codes). Then use your prompt engineering skills to populate it for your specific classroom. Use any LLM. We are circulating — flag us if you get stuck. Finished early? Try: differentiation tiers, rubric generation, or a parent communication draft.
10:45	BREAK 10 min	**Break #2** Browse the resource website while you stretch.
10:55	LISTEN **Fortify**	.

Using AI for STEM - LIVE AGENDA

Drs. Andrea & Mike Borowczak & **Alicia Thoney** CS '24, CpE MS '26

11:18	YOU DO **Fortify** 5 min	**Quick Audit: Your Own Lesson** Go back to the lesson you built. Find one thing the AI got wrong or one thing you'd need to fix before using it. Note it in the shared doc.
11:23	LISTEN **Transfer** 5 min	**CRAFT Debrief: What Just Happened?** Let's walk through today's session and name each CRAFT phase as we experienced it. You just lived a C→R→A→F→T cycle.
11:28	YOU DO **Transfer** 15 min	**Design: Your Own CRAFT Lesson Sketch** Pair up. In 10 minutes, sketch a rough lesson for your classroom that follows C→R→A→F→T. It doesn't have to be perfect — just map one idea per phase. Share your favorite phase with the whole group in the last 5 minutes.
11:43	YOU DO 5 min	**Explore: Resources** https://www.cxedhub.com/pds/craft-pd-series/workshop-1-ai-for-stem/ Everything is yours to use: prompt library, lesson templates, platform comparison cheat sheet.
11:50	ADMIN 10 min	**Post-Survey & Closing** https://ucf.qualtrics.com/jfe/form/SV_eEswd3p2cnnrZVs You are now an AI-equipped STEM educator. Go break things and learn from them.