

The AI Creative Edge

Connecting AI, Coding & Future of Work

An overview of AI as a collaborative partner for coding, research, creation, iteration, and prototyping using a variety of Google Gemini and other AI tools!

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VIBE

AGENTS

RESEARCH

VIDEO

PROTOTYPE

MORE...

DEFINITION

What is vibe coding?

Vibe coding = building by describing, steering, and refining.

- Use natural language to describe what you want to build or improve.
 - Let AI generate a first draft, workflow, or prototype.
 - Test it, revise the prompt, and iterate until it works for the audience and purpose.
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Educator Framing

Students still need judgment. The value is in the back and forth, the collaboration, the revision, and the quality check.



VC

Describe + Refine

A practical entry point for prototyping with AI before traditional coding or advanced automation.

DEFINITION

What are AI agents?

An AI system that works toward a goal through multiple steps using skills and tools.

- A single prompt asks AI to do one thing now.
- An agent can plan, use skills, tools or information, make choices, and continue the task.
- For students, agentic thinking means designing a workflow, not just getting an answer.

Simple comparison

Prompt: “Summarize this.” | Agent: “Read these sources, pull key ideas, draft a summary, and revise it for ninth graders.”



Agents

Claude Co-Work

Useful mental model:
a prompt gives AI a
task; an agent gives
AI a role and a
process.

DEMO

Gemini Canvas – multimodal

Why it matters

- Shows AI as a collaborator for planning, drafting, revising, and reformatting.
- Makes iteration visible: students can improve tone, length, structure, and clarity in context.

Live Demo

- Start from a rough idea and turn it into a cleaner outline, report, slide deck, or app concept.
- Highlight a section and ask for a revision so the audience sees AI as an editor, not just a generator.



[Gemini Canvas](#)

A tool inside Gemini for drafting, editing, and turning rough ideas into finished outputs.

Classroom / workforce
connection

DEMO

Google AI Studio — vibe coding to prototyping and deploying!

Why it matters

- Describe an idea, iterating, and turn it into a working prototype.
- Reinforces that AI literacy is increasingly about systems, modalities, and product thinking.

Demo

- Start with a plain-language idea or goal then refine toward a more useful prototype.
- AI Studio supports experimentation across text, image, audio, and video models in one place.



AI Studio

Capstone demo:
move from
describing an idea
to testing prompts
and prototyping an
AI-first app.

Classroom / workforce
connection

DEMO

Google Vids — AI for video creation & communication

Why it matters

- Shows a practical classroom-to-workforce use case: explainers, pitches, onboarding, and project updates.
- Helps students connect script, storyboard, visuals, and voice into one communication product.

Live Demo

- Start a video from a prompt or outline, then point out the storyboard, script, voiceover, or editing aids.
- Connect the demo to how students might present a process, product, or reflection.



Vids

Google Vids

An AI-powered Workspace tool for making polished video communication easier to create and share. Ideal for business, marketing, media arts, employability skills, and student project showcases.

Classroom / workforce
connection

DEMO

Google Opal – from prompts to mini apps and workflows

Why it matters

- Bridges the gap between one-off prompts and reusable workflows.
- Helps educators explain how AI can support a process, not just produce a response.

Live Demo

- Open an example mini-app and trace the flow from input to output.
- Describe a classroom task and show how a simple AI workflow could make the task repeatable.



Google Opal

A no-code experiment for building, editing, and sharing AI mini-apps with natural language. Useful for capstone projects, entrepreneurship, marketing, and automating repeatable learning tasks.

Classroom / workforce
connection

DEMO

Google FX / Labs — creative AI experiments for media and more

Why it matters

- Expands the audience view of AI beyond text and chat into multimodal creativity.
- Connects especially well to design, communications, digital media, and storytelling pathways.

Live Demo

- Tour the hub and briefly name the kinds of creative tools available such as Genie, Flow, Whisk, or MusicFX.
- Emphasize experimentation: students can explore ideas fast, then reflect on quality, ethics, and audience.



FX Labs

Google FX Labs

A creative hub for trying multimodal AI experiences across image, music, video, and world-building. Great for creative exploration, concept development, and showing the breadth of emerging AI tools.

**Classroom / workforce
connection**

DEMO

Claude Code – AI assisted Coding and Artifact generation for learning...

Why it matters

- Expands the audience view of AI beyond text and chat into multimodal creativity.
- Connects especially well to design, communications, digital media, and storytelling pathways.

Live Demo

- Show how Claude Code can generate, explain, revise, a script, an app, a work flow from a prompt.
- Emphasize iteration: students can test ideas quickly, then reflect on accuracy, ethics, documentation and audience.



Claude

Claude Code

An AI coding assistant that helps users plan, write, explain and improve code. Great for prototyping, debugging, documentation and learning programming concepts across languages and platforms.

**Classroom / workforce
connection**

DEMO

OpenAI Codex — AI assisted Coding and generating for development...

Why it matters

- Expands the audience view of AI beyond text and chat into multimodal creativity.
- Connects especially well to design, communications, digital media, and storytelling pathways.

Live Demo

- Show how Codex can generate, explain, revise, a simple script, an app, or a workflow from a prompt.
- Emphasize iteration: students can test ideas quickly, then reflect on accuracy, ethics, documentation and audience.



Codex

Codex

An AI coding assistant that helps users plan, write, explain and improve code. Great for prototyping, debugging, documentation and learning programming concepts across languages and platforms.

Classroom / workforce
connection

Why this matters in CTE

Students will not just use AI tools. They will work with AI across research, design, communication and decision-making.

- CTE classrooms are ideal places to teach AI through authentic tasks and workflows.
- The key skill is not prompting; it is guiding, checking, critiquing, revising, and improving and collaborating.
- Today's tools let learners move from asking for output to setting goals, building processes and prototypes.



CTE + AI

Physical-to-Digital Bridge

AI belongs in
hands-on pathways:
media, business,
design, health,
STEM, and trades.

CLOSE

Closing: one tool, one task, one experiment

Three takeaways for educators

- Teach AI as a partner for learning, thinking and creating, not as a shortcut to answers.
 - Give students practice critiquing, directing, checking, and improving AI outputs.
 - Start small: choose one tool, one task, and one shop or classroom project to try next.
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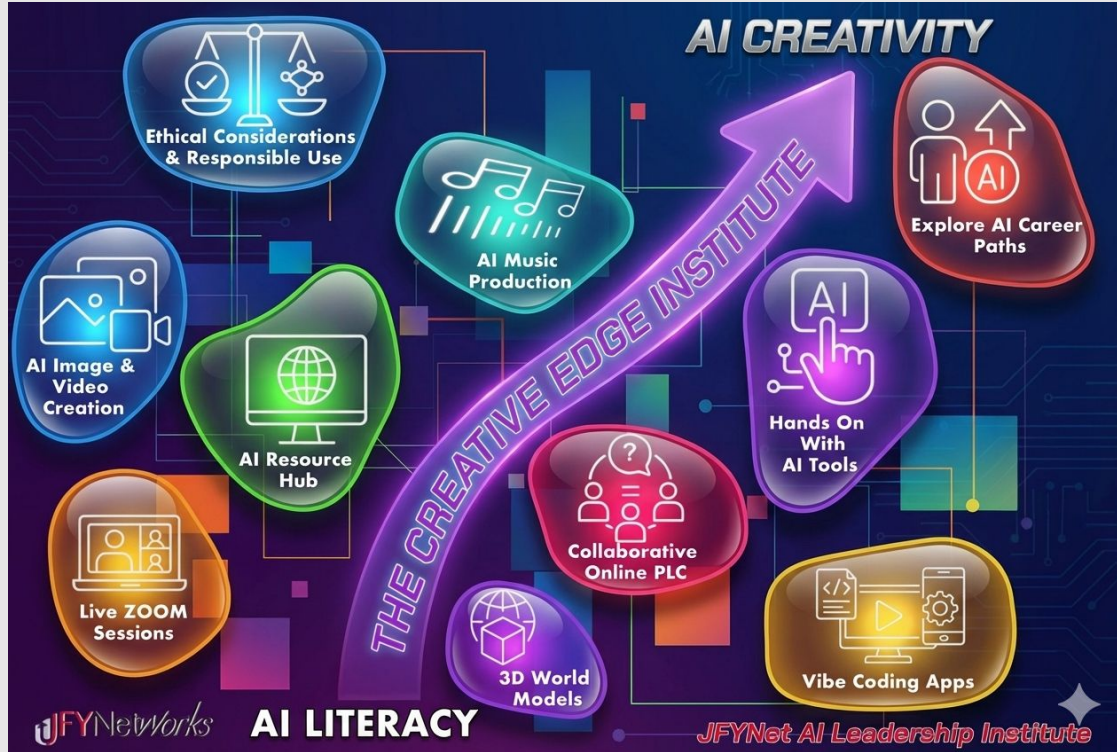
Challenge to leave with

What is one assignment, workflow, or student product that would become more powerful if AI helped with the first draft or the next revision?



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JFYNet Customized CTE AI PD Program



AI CTE

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Customized AI PD
Program Options
<https://jfynet.org> or
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