

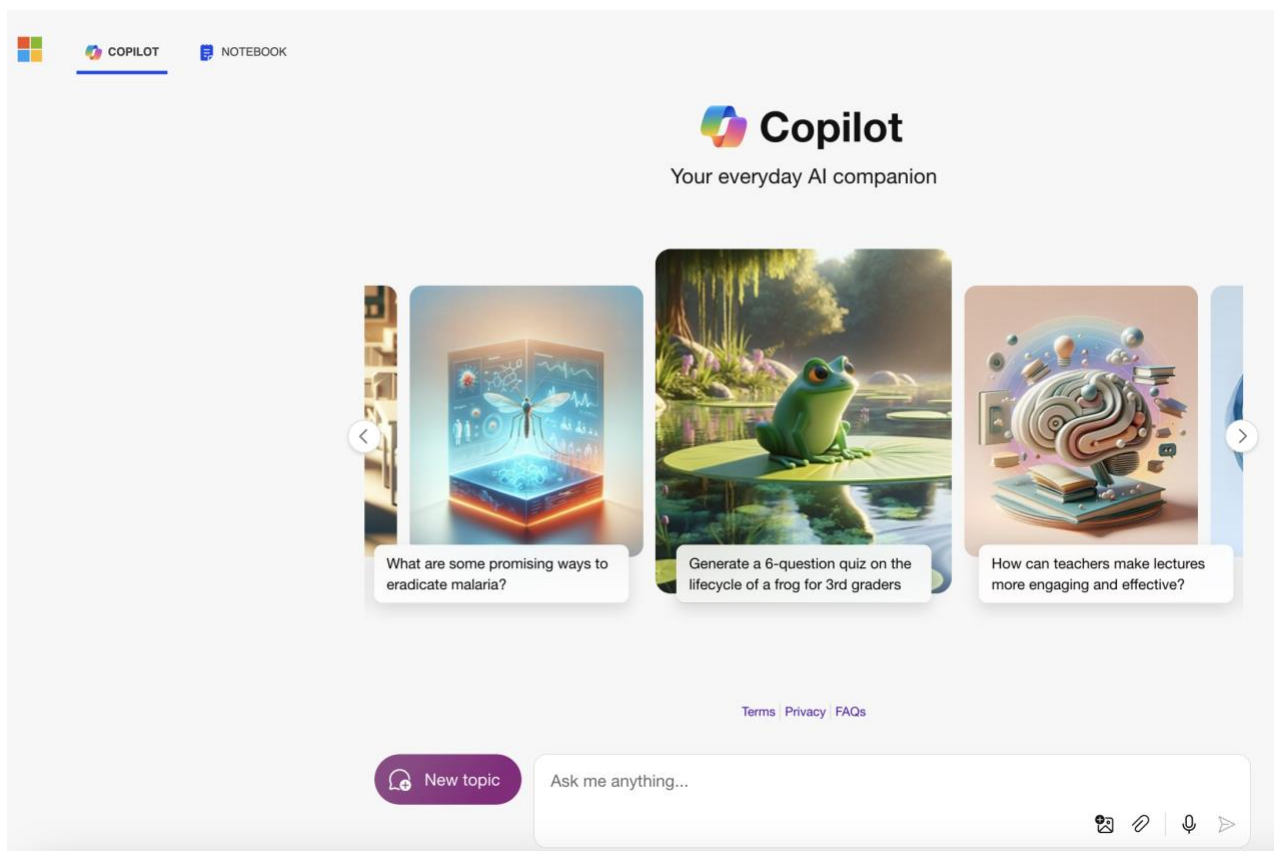
AI in Education: Exploring Pedagogical Use-Cases

Microsoft Copilot

1. Log in to [Microsoft CoPilot](https://copilot.microsoft.com/) (<https://copilot.microsoft.com/>) in a browser, using your VSC credentials.

When you encounter a Microsoft login screen, use the @vsc.edu version of your email address to be passed through to the authentication screen where you enter your username and password.

2. Start a chat. If you want to have a second (or third or fourth) conversation, click the purple button for “New topic.”



Effective Gen AI Prompting

Structured prompts for specific outcomes

Provide context for better responses

Encourage chatbots to ask for more information


Have chatbots adopt a perspective or identity

Correct AI mistakes and iterate


Adapted from Exploring Pedagogic Uses of AI Workshop Kit
by Kenji Ikemoto
Published by Stanford Center for Teaching and Learning




CAPTURE for text-based outputs (bolded components are primary)


 **Context** – tell the LLM why you need this output


 Attitude – specify desired sentiment or tone

 **Persona** – tell the LLM to roleplay as someone (this often improves output)

 **Task** – define what output the LLM should create; the core of the ask

 Uniqueness – include details, adjectives, adverbs to strengthen output

 Requirements – specify length, format, sophistication, and steps the LLM should take

 Explain – ask for details about how the output is derived

Example:

You are the Chair of the General Education committee of the Faculty Senate at a regional, public university (**Persona**). You are developing rubrics that can be used to assess student proficiency of the General Education learning objectives. Faculty from across the university will apply the rubrics to various different types of artifacts of student learning submitted as assignments for courses in the general education program (**Context**). Write a rubric for this learning objective: "Students will create and deliver written, oral, and/or visual communication that is purposeful, organized, engaging, and adheres to academic standards of clarity, development, and presentation" (**Task**). Within the rubric, use these 4 categories "Not Demonstrated," "Emerging," "Proficient," and "Excelling" as the column headers. And write descriptive statements distinguishing each cell in the rubric from the others (**Uniqueness**). The outputs should be straightforward and concise (**Attitude**). Specify which research and sources were used to arrive at this output (**Explain**).

Reminders:

- The only sanctioned Generative AI tool for use in the VSCS (as of August 2024) is [Microsoft's Copilot](#). When logged in with your VSCS account, [commercial data protection](#) applies.
- Generative AI outputs will have a tone of authority, but that does not mean they are accurate – "hallucinations" are real, where information or citations are simply made-up.
- Iteration is almost always required.

Adapted from AI Hacks for Educators
by Kevin Yee, Laurie Uttich, Eric Main, and Liz Giltner
Published by FCTL Press Orlando, Florida



SCALE for image-based outputs

Subject

Context

Actions

Layout

Elements

Example:

Create an image of a cartoon eagle (**Subject**). The eagle should look friendly, as if from a child's picture book (**Context**). Depict the eagle flying a kite in a thunderstorm and speaking with a cartoon turkey (**Actions**). In the background, show a few trees and, off to the side, a red barn (**Layout**). Despite the setting in a thunderstorm, the image should be bright and cheerful, showing vivid colors such as the green grass underfoot and the rainbow-colored kite (**Elements**).

Reminders:

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- Bias is often perpetuated in Generative AI images, especially those outputs representing people, places, and cultures. Critiquing image outputs may be a useful learning experience, and also, exposure to biased images could be marginalizing, triggering, or harmful for some people.

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Getting Started



Have a conversation

Task: Introduce yourself as an educator and ask it to introduce itself.

Goal: Get familiar with the chatbot interface and its capabilities.



Stump the AI

Task: Pose a series of questions about a specific topic you are expert on.

Goal: Understand how to pose questions and gauge the chatbot's content knowledge.



Create a worksheet

Task: Ask AI to generate quiz questions or a worksheet on a topic.

Goal: Write a structured series of prompts to generate a desired outcome.

Diving Deeper



Interactive storytelling

Task: Collaborate with the chatbot to write a creative short story relevant to your discipline area.

Goal: Explore the creative and writing capabilities of chatbots.



Understanding misconceptions

Task: Present a common misconception in your subject area and ask how it would explain the correct concept to students

Goal: Evaluate chatbots' ability to differentiate misconceptions from accuracies.



Lesson planning

Task: Describe a lesson topic and co-generate a lesson plan including activities and resources.

Goal: Practice prompting to iterate and refine the chatbot output.

Six Additional Examples of GenAI Instructor Use

| Amp Up Active Learning | Increase Student Success | Increase Accessibility |
|---|---|---|
| Generate Case Studies | Make Assignments More Transparent with Purpose, Tasks, & Criteria | Generate Alt Text and Captions for Images |
| Maximize the Testing Effect by Generating Lots of Practice Quiz Questions | Proactively Anticipate Student Questions & Make FAQs | Create Multiple Versions (e.g., Text and Graphic) |

Six Examples of GenAI Assignments

| AI Fluency & Literacy | Critical Thinking | Content Exploration |
|------------------------------|---------------------------------|-------------------------|
| Intro to AI Literacy Modules | Evaluate and Revise Text Output | Elaborating & Expanding |
| Prompt Engineering Exercises | Evaluate Image Output | Role Play |

Resource Pages

[Teaching in the Age of Generative AI](#) (VTSU CTLI website)

[Library Guide: Artificial Intelligence](#) (VSCS Library website)

Intro to AI Literacy Module

Note: The link to the Module will only work if you first open Canvas Commons. Please click this link first: [Open Canvas Commons](#)

Then click the link to the: [AI Literacy Module](#)

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