



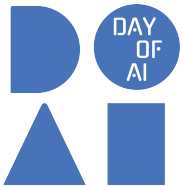
# Designing Student Protocols for AI Use

Angela Marzilli

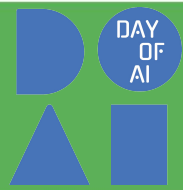
Professional Learning and Curriculum Developer

Day of AI

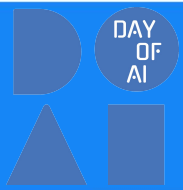
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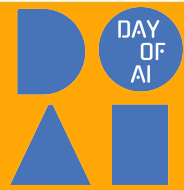
## *Day of AI's Goals*



**Create AI literacy programs for all school stakeholders, including students, teachers, administrators, and families.**



**Train and educate teachers on how to use AI and AI-enabled tools to support their work.**



**Ensure student safety by developing responsible and equitable AI policies in their school.**



# Session's Goals

- Explore the strengths and limitations of AI tools in educational contexts.
- Identify key supports and student protocols that encourage responsible and effective AI use.
- Collaborate on the design or revision of an assignment that thoughtfully incorporates AI.



# Should AI change what and how students are taught?





# What skills do we teach that are becoming automated, and what becomes MORE important because of that?

**Skills Becoming Automated**

- 

**Skills Becoming More Important**

- 





# Given What AI Can Do...

**What are the skills that students need to learn?**





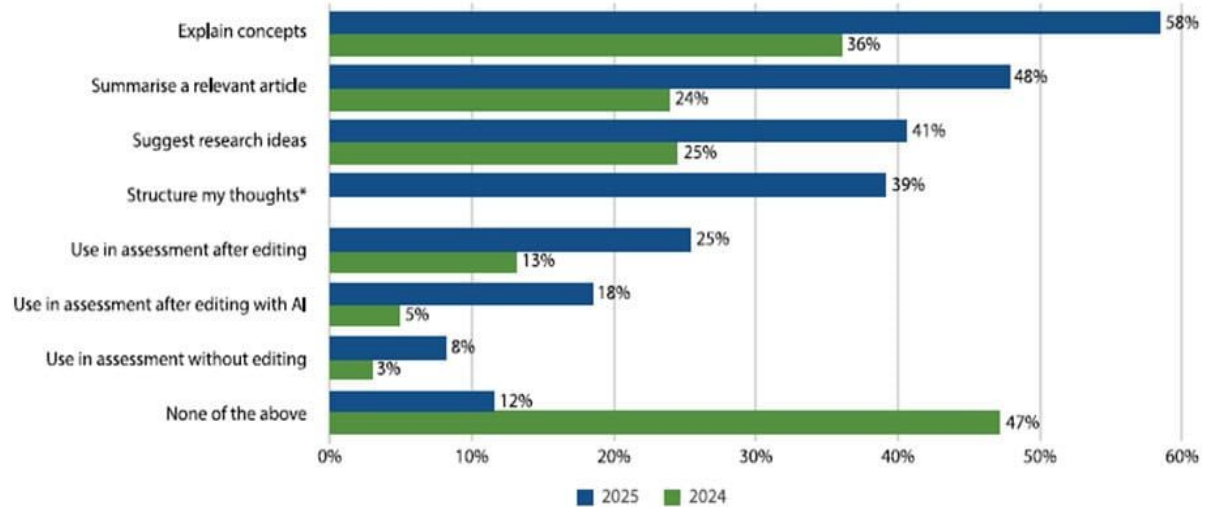
**Let's prepare students for living in an AI-enabled world.**



# Higher Ed. Policy Institute, 2025

The proportion of students using generative AI tools such as ChatGPT for assessments has jumped from 53% last year to 88% this year. The most common uses are for generative AI to explain concepts, summarise articles and suggest research ideas. The proportion who have not used generative AI for their assessment in these ways has plummeted from 47% last year to just 12% this year.

Figure 2 How have you used generative AI for assessments?



*'When thinking about using generative AI to prepare assessed work, which of the following have you ever done? Please select all that apply.'*

*\* indicates the option is new in 2025. Those putting 'I don't know' (1% of responses in 2025) are excluded*



# How Are Educators Using AI?

**One-third** of K-12 teachers say they have used AI tools in their classrooms, according to an early [2025 Walton Family Foundation](#) (USA) survey.

- Teachers reported using AI for administrative tasks and materials for students. For instance, **teachers used AI to create lesson plans, rubrics, emails to parents, and letters of recommendation.**
- Less popular is using AI for grading student work or checking for plagiarism. Many teachers **are concerned about replacing their judgment with AI.**



# What Are Generative AI Systems Good At?



# What Generative AI Systems Are...

## Good At\*\*\*\*\*

- generating ideas & resources
- giving feedback w/o judgement
- personalizing practice
- identifying patterns
- imitating tones, personas, time periods
- automating certain tasks
- language support, translations
- clarifying & summarizing text to any difficulty level

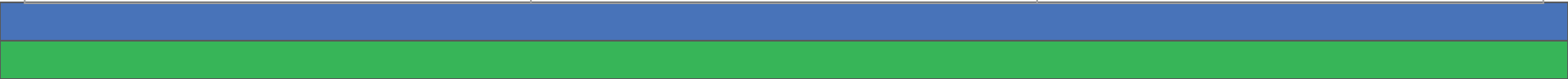
## Bad At

- being consistently factual or reliable
- handling ambiguity and vagueness
- citing sources
- *true* comprehension and understanding
- avoiding bias
- reasoning and logical inference
- keeping up with recent, current information



# AI is a powerful tool for...

<b>exploration</b>	<b>creation</b>	<b>differentiation</b>
<p>enhanced research and information gathering</p> <p>facilitating curiosity-driven learning</p> <p>answering questions</p>		





# AI is a powerful tool for...

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<p>enhanced research and information gathering</p> <p>facilitating curiosity-driven learning</p> <p>answering questions</p>	<p>enhancing students' ability to communicate their ideas</p> <p>generating more ideas, content, text, images, video, music</p>	



# AI is a powerful tool for...

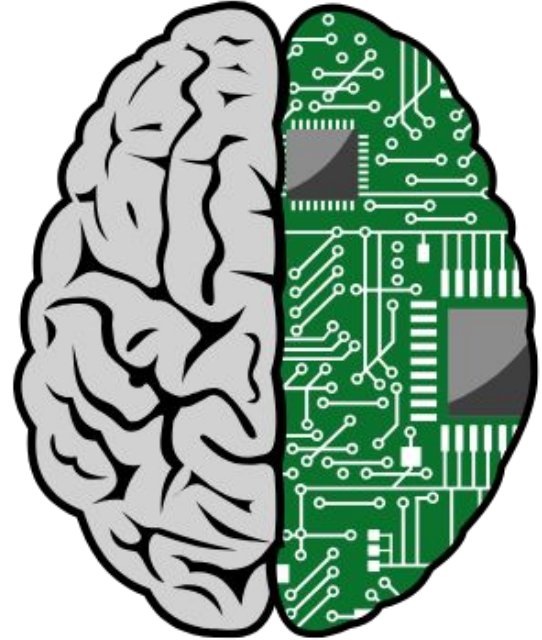
<b>exploration</b>	<b>creation</b>	<b>differentiation</b>
<p>enhanced research and information gathering</p> <p>facilitating curiosity-driven learning</p> <p>answering questions</p>	<p>enhancing students' ability to communicate their ideas</p> <p>generating more ideas, content, text, images, video, music</p>	<p>scaffolding readings for students with low literacy</p> <p>generating extension problems for more advanced students</p> <p>providing feedback</p>



# The Brain Behind the Bot

In this NEW unit, students ages 12 and up will:

- Understand how Large Language Models function
- Identify patterns in social interaction
- Consider how AI can enhance or disrupt these experiences
- Analyze common AI tools used in education
- Create their own AI use guidelines for school assignment purposes



<https://dayofai.org/curriculum/thebrainbehindthebot/>

A background of various business-related icons in a light grey, hand-drawn style. The icons include a calculator, magnifying glass, star, envelope, target, laptop, paper airplane, money bag, smartphone, piggy bank, bar chart, padlock, megaphone, credit card, and various coins and documents.

# Protocols for AI Usage



# Kapor Foundation Tool

## [AI Classroom Assignment Norms Tool](#)



[https://docs.google.com/forms/d/e/1FAIpQLScy-086d03iJvsgze5uRTtDUPok2F4AVei0U2jmZa9H7\\_xJjg/viewform](https://docs.google.com/forms/d/e/1FAIpQLScy-086d03iJvsgze5uRTtDUPok2F4AVei0U2jmZa9H7_xJjg/viewform)

<b>Generative AI Assistant Roles</b>	<b>Definition of Generative AI Assistant Roles</b>	<b>Sample Prompts for AI</b>	<b>Example Generative AI Tools</b>	<b>Point Value of AI Assistance</b>
<b>Bibliography Builder</b>	Using generative AI to create accurate bibliography in APA or MLA format for assignment completion	"provide the MLA format of x source"	MyBib, Citation Machine, Zotero, EndNote, Cite this for me, CiteMaker	1 point
<b>Brainstormer</b>	Using generative AI to create and generate ideas or starting prompts needed for assignment	"provide a list of 10 facts about the Pythagorean Theorem"	Grammarly, Chat GPT Gemini, Claude, Zapier, Duet AI, Rytr, Jasper, Writesonic	2 points
<b>Clarifier</b>	Using generative AI to edit in order to refine the meaning of paragraph within assignment	"provide an edited paragraph that is more concise and clear on writing level of a 9th grader"	Grammarly, Chat GPT Gemini, Claude, Zapier, Rytr, Duet AI, GitHub Copilot, Jasper, Writesonic	2 points
<b>Co-Author</b>	Using generative AI to co-write entire assignment including development of ideas, context of writing, refinement of writing, as well as assistance with outline and structure of document to assist with assignment completion	"provide a 5 paragraph essay written on a 10th grade writing level with five unique citations about the emperor of Japan during WWII"	Grammarly, Chat GPT Gemini, Claude, Zapier, Rytr, Duet AI, GitHub Copilot, Jasper, Writesonic	5 points
<b>Data Analysis</b>	Using generative AI to assist in understanding and analyzing a variety of data or data sets needed for assignment completion	"provide a pivot table that will cross reference and show trends gender data with socioeconomic data for suburb of Suwanee in Georgia over the last 5 years"	Tableau, Bardeen.ai, Qlik, Polymer, PowerBI, AnswerRocket	5 points

<b>Generative AI Assistant Roles</b>	<b>Definition of Generative AI Assistant Roles</b>	<b>Sample Prompts for AI</b>	<b>Example Generative AI Tools</b>	<b>Point Value of AI Assistance</b>
<b>Data Illustrator</b>	Using generative AI to create specific graphs, timelines, and/or charts needed for assignment completion	"provide a chart to compare examples of active and passive voice in English"	Piktochart, Outline Ninja, Mostly AI, Taskade, Infogram	2 points
<b>Editor</b>	Using generative AI for spelling corrections and grammar suggestions to assist with assignment completion	"provide grammar and spelling edits to this paragraph"	Grammarly, ProWritingAid, Linguix, Wordtune, LanguageTool, Hemingway App	2 points
<b>Idea Illustrator</b>	Using generative AI to create images, infographics, graphic organizers, or other visual representations of concepts for assignment completion	"provide an image of Denmark Vessey would have looked like as a child"	Adobe Firefly, Midjourney, DALL-E2, Stable Diffusion, Piktochart, Canva, Craiyon, ImagineArt	2 points
<b>Outline Builder</b>	Using generative AI to create a hierarchy and/or roadmap for your assignment	"provide a outline or template for writing a three page paper on Maya Angelou"	Grammarly, Akkio, Copy.ai, Hypotenuse AI, Reliablysoft	3 points
<b>Research Assistant</b>	Using generative AI to find credible sources that are verified to assist with assignment completion	"provide a primary source related to Dolores Huerta"	Chat GPT Gemini, Claude, Duet AI, GitHub Copilot	2 points
<b>Translanguaging Support</b>	Using generative AI for language translation of text, as a thesaurus, or to break complex text down as needed for improved comprehension	"provide a translation of this primary document in Portuguese to English"	Myreader's AI, Chat GPT, Gemini, Claude	1 point



# Creating Assignments That Authentically Incorporate AI



# AI Protocol Example: Argumentative Essay

<p><b><u>Standards covered</u></b></p>	<p>CCSS.ELA-Literacy.W.9-10.1: write arguments to support claims</p> <p>CCSS.ELA-Literacy.W.9-10.5: develop and strengthen writing by planning, ...</p> <p>CCSS.ELA-Literacy.W.9-10.4: produce clear and coherent writing</p>



# AI Protocol Example: Argumentative Essay

<b>Analyze outcomes</b>	CCSS.ELA-Literacy.W.9-10.1: write arguments to support claims CCSS.ELA-Literacy.W.9-10.5: develop and strengthen writing by planning, ... CCSS.ELA-Literacy.W.9-10.4: produce clear and coherent writing
<b><u>Potential Protocols</u></b>	AI roles: outline builder, idea illustrator, and editor Downsides: <ul style="list-style-type: none"><li>- Overreliance</li><li>- Compromising student voice</li><li>- Plagiarism</li><li>- Hindering skill development</li><li>- Biased output from AI</li></ul>



# AI Protocol Example: Linear Equations

## Analyze outcomes

start with existing standards-based outcomes

Common core math standards for 8th grade: Students strategically choose and efficiently implement procedures to solve linear equations

## Potential Protocols

in which roles could AI deepen understanding, increase engagement, or support mastery?



# AI Protocol Example: Linear Equations

## Analyze outcomes

start with existing standards-based outcomes

Common core math standards for 8th grade: Students strategically choose and efficiently implement procedures to solve linear equations

## Potential Protocols

in which roles could AI deepen understanding, increase engagement, or support mastery?

Students will use AI to explore multiple solutions and visual representations of linear systems of equations. By working in groups to compare their problem-solving strategies with AI-generated solutions, this activity will reinforce key concepts and skills.

Potential drawbacks are that LLMs have some limitations with math and logic problems. We will address these explicitly so students understand this limitation.



# Building Your Own Practice

## Look at one upcoming unit/module/etc

- What skills that we discussed does it develop?
- What would make it more “AI-proof”, or constructively incorporate AI?

Make a copy [here](#) to get started.



# Building Your Own Practice

**Think about the student uses of AI in your content area**

- What roles could AI take on for students?
- What guidelines would you want your students to have in using AI in those roles?

Make a copy [here](#) to get started.



# General ideas for...

<b>Avoiding AI</b>	<b>Incorporating AI</b>
<ul style="list-style-type: none"><li>● Debates</li><li>● Presentations</li><li>● Blue Books</li><li>● Manipulatives/Projects with physical making</li></ul>	<ul style="list-style-type: none"><li>● Students assess/analyze AI work</li><li>● AI used for first draft</li><li>● AI used for feedback on drafts</li></ul>

A background of various business-related icons in a light gray, hand-drawn style. The icons include a calculator, magnifying glass, star, envelope, target, laptop, paper airplane, money bag, smartphone, piggy bank, bar chart, padlock, megaphone, credit card, and various coins and documents.

# Work Time



# Share Out / Reflection

1. Grade Band, Subject Area
2. Learning Outcomes
3. Assignment Type
4. Ideas For Incorporating AI With Students



AI-generated image



# AI Detection Tools



## AI detectors are not definitive.

They may correctly flag fully AI-generated writing.

They are much less reliable when students mix AI support and their own thinking (which is increasingly common).



## False positives are a real risk.

Human writing can be incorrectly flagged as AI.

Short responses and multilingual writers are more likely to be misclassified.



## AI tools change faster than detectors.

As generative AI improves, detection accuracy can shift.

A result that seems confident may still be wrong.



## Over-reliance on detectors can create equity and trust concerns.

False accusations can harm student-teacher relationships.

Detectors should not be the sole basis for disciplinary decisions.



# Final Discussion / Questions



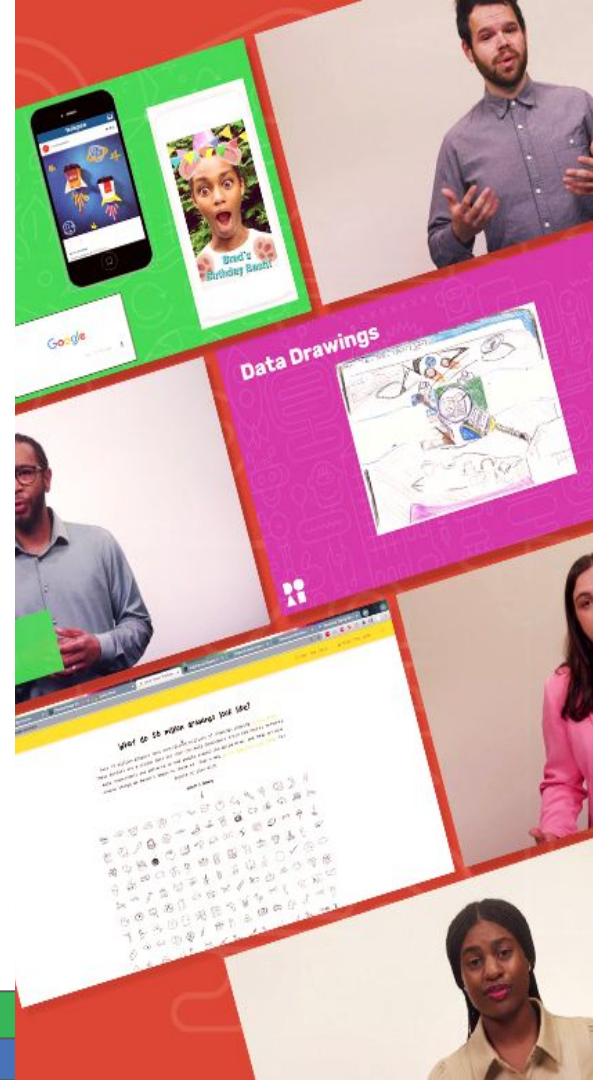


# Bring Day of AI to Your School

Day of AI provides **free, hands-on AI** curricula, developed by teachers and MIT RAISE researchers.

## Getting started is as easy as 1, 2, 3

- 1) Register at [dayofai.org](https://dayofai.org)
- 2) Explore our free curriculum and activities
- 3) Use the [2025 Planning Guide](#) to begin planning your Day of AI!





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