Community Conversation: The AI Revolution

May 8, 7:00PM

Virtual Webinar

- Learn what AI is and what it isn't
- Understand how it is being used in education and in the workforce
- Explore the benefits and challenges of AI in K-12 classrooms
- Discover how AI is revolutionizing learning and supporting student growth





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Director of Technology Innovation & Instructional Design

What is AI?

Artificial Intelligence - the simulation of human intelligence processes by machines, especially computer systems.

AI is:

- Online and in-store shopping
- Robotic tractors, precision agriculture
- Warehouse Fulfillment
- Credit Card Fraud Protection
- Insurance Rates
- NASA images from space
- Text to Speech
- Foreign Language Translation
- Mapping and Navigation

It is in all of our lives and industries.

AI is NOT:

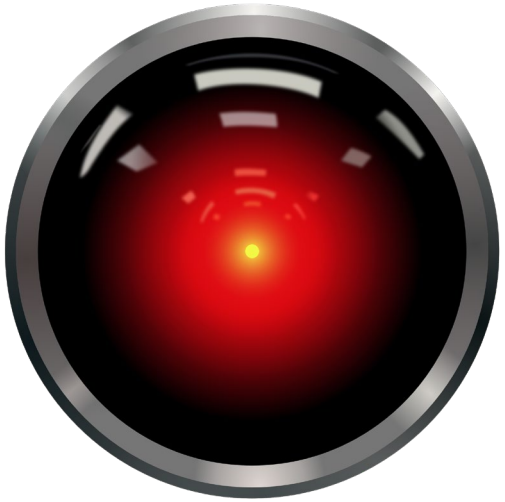
- Alive
- Smarter than us
- Killer robots
- Only for geniuses
- Only for people in tech cities
- Always physical. It is inside our computer software and phone apps.

And it is not going away.

Roots of AI





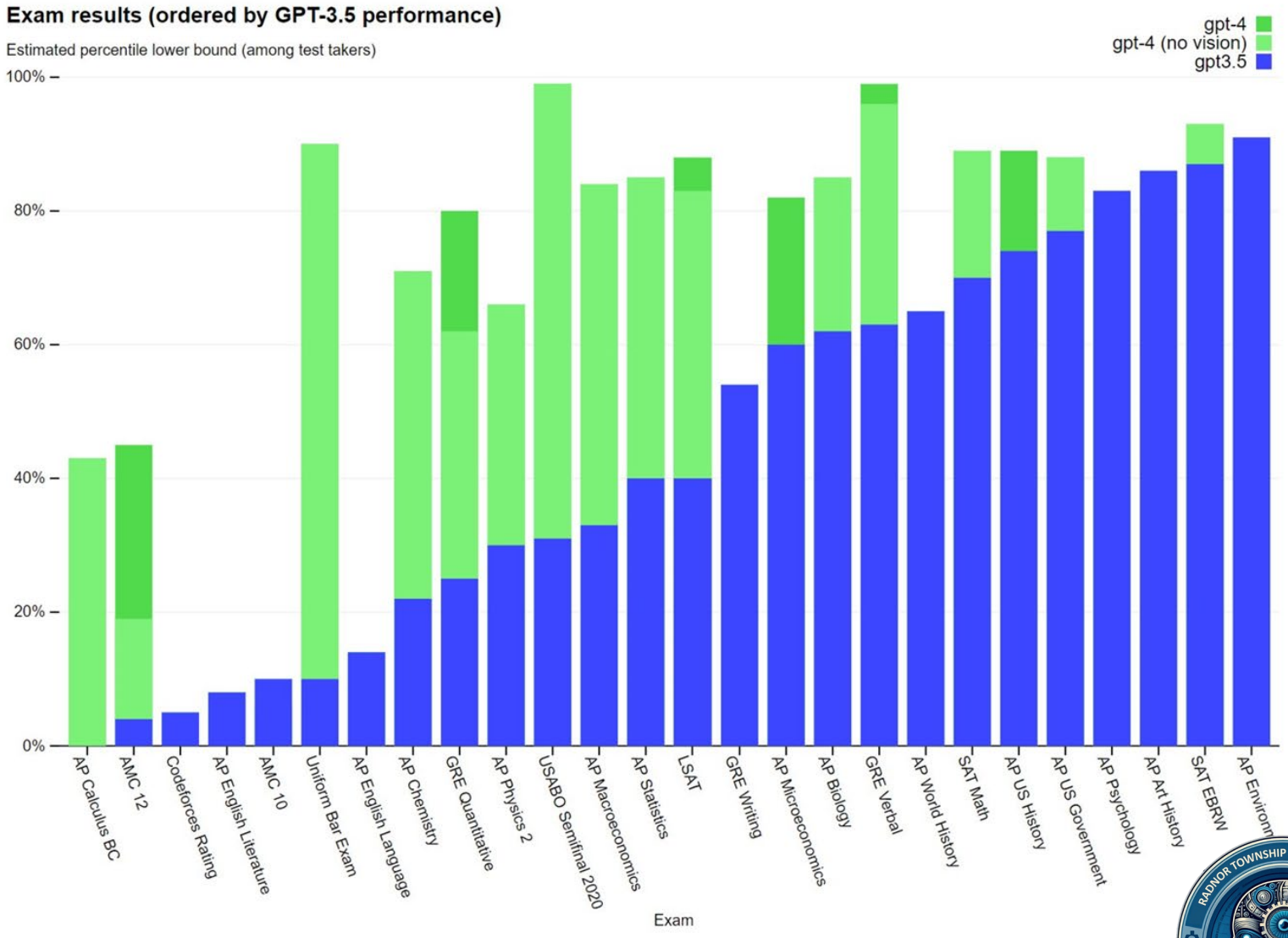


Roots of AI

- **Imagination**
  - Ancient Greece
  - Science Fiction
- **IT**
  - Dartmouth College, summer of 1956
  - Development of expert systems in the 1970s
  - Emergence of machine learning in the 1980s
- **Information**
  - Volume & Processing, beginning in the early 2000s
  - The rise of deep learning and neural networks in the 2010s

How good is AI?

OpenAI



GPT-R technical Report, March 27, 2023, p.6
https://cdn.openai.com/papers/gpt-4.pdf

ChatGPT is Only One Example of AI













AI is more than chat



ChatGPT 3.5

You

Suggest 10 topics I could write a research paper on related to Israel and Palestine.

ChatGPT

Certainly! Here are ten potential research paper topics related to Israel and Palestine:

1. The Impact of Settlement Expansion on the Israeli-Palestinian Conflict
2. Analyzing the Role of International Law in Resolving Israeli-Palestinian Disputes
3. The Influence of Religion on the Israeli-Palestinian Conflict: A Comparative Study
4. Exploring the Socio-Economic Implications of the Israeli Occupation on Palestinian Territories
5. Media Representation and Bias in Co ge of the Israeli-Palestinian Conflict
6. The Evolution of the Two-State Solution: Challenges and Prospects for Peace

Message ChatGPT...

ChatGPT can make mistakes. Consider checking important information.

ChatGPT 3.5

You

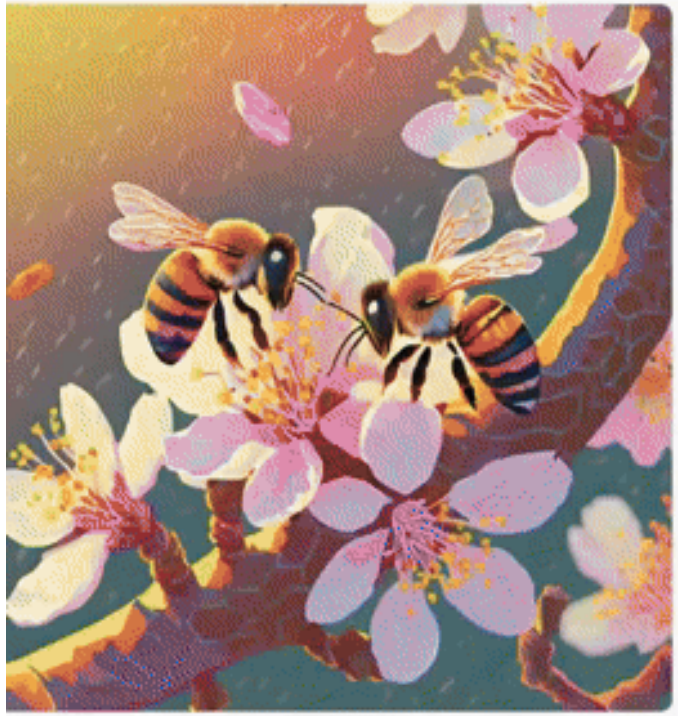
You are a fourth-grade math teacher preparing a hands-on activity for teaching fractions. The students have been introduced to fractions and have a basic understanding of the concept. Design a detailed step-by-step guide for an interactive fraction activity, including materials needed, instructions for the activity, and reflection questions to assess understanding.

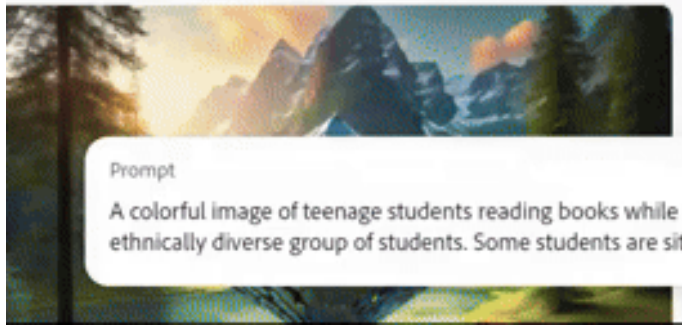
ChatGPT

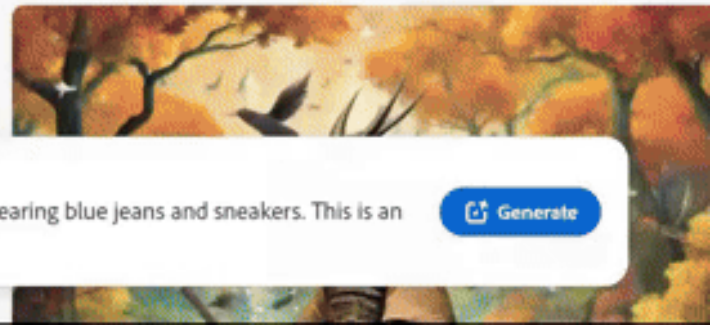
**Hands-On Fraction Pizza Act ●

Message ChatGPT...

Text to image





Prompt

A colorful image of teenage students reading books while sitting outside in a courtyard on a spring day. The students are dressed casually wearing blue jeans and sneakers. This is an ethnically diverse group of students. Some students are sitting on the grass. Some are sitting on a bench.

Generate

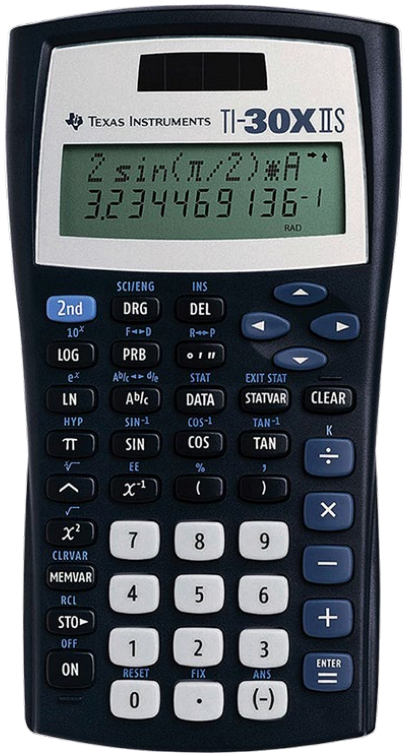
Look Who's Talking

- SAG/AFTRA
- US Senate
- PA HB1598
- White House: Executive Order
- Tech Leaders (Center for Internet Safety)

Mitigating the risk of extinction from AI should be a global priority alongside other societal-scale risks such as pandemics and nuclear war.


PAUSE
SAMSUNG

Transition

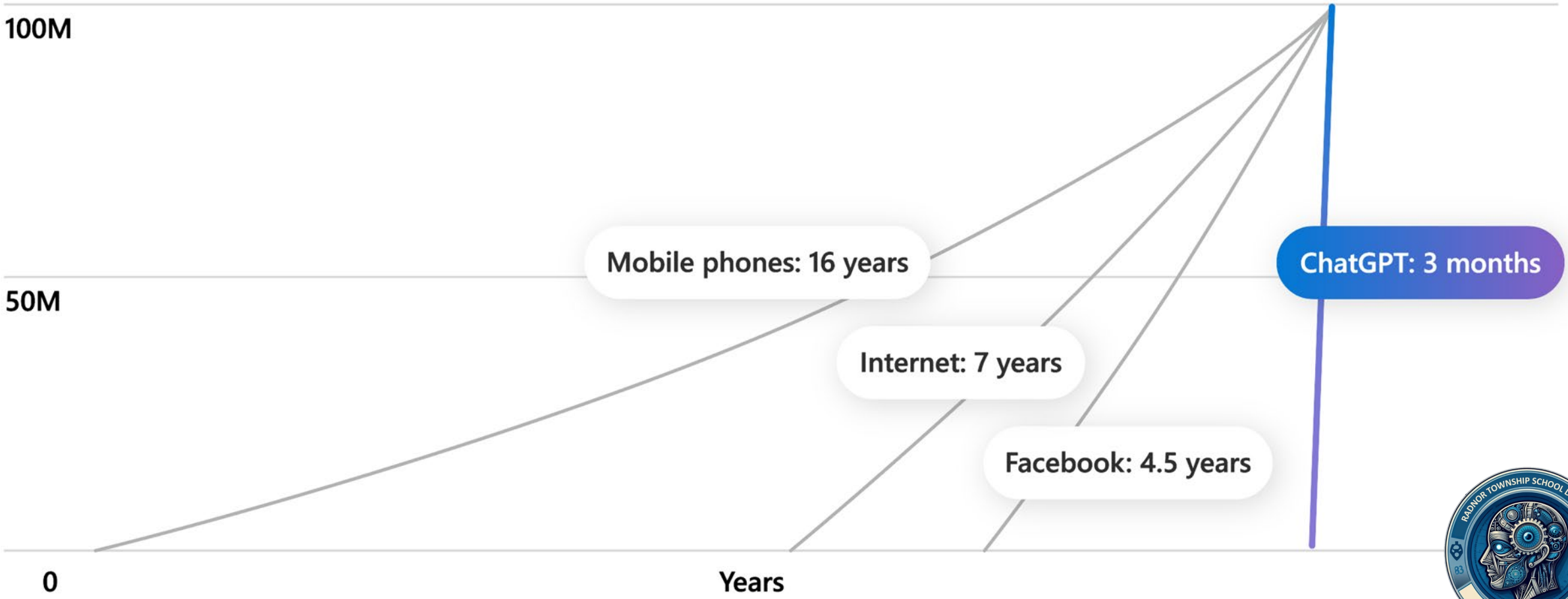




Google

Generative AI technology is here

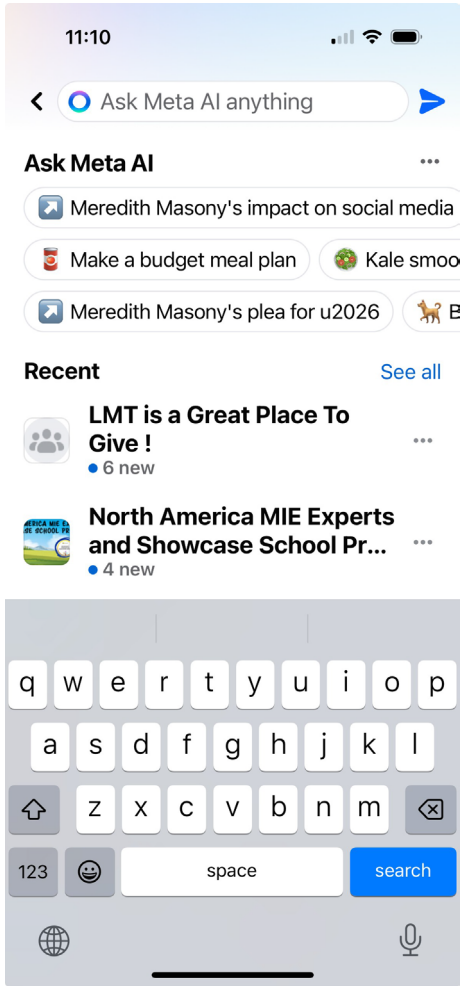
Time to reach 100M users



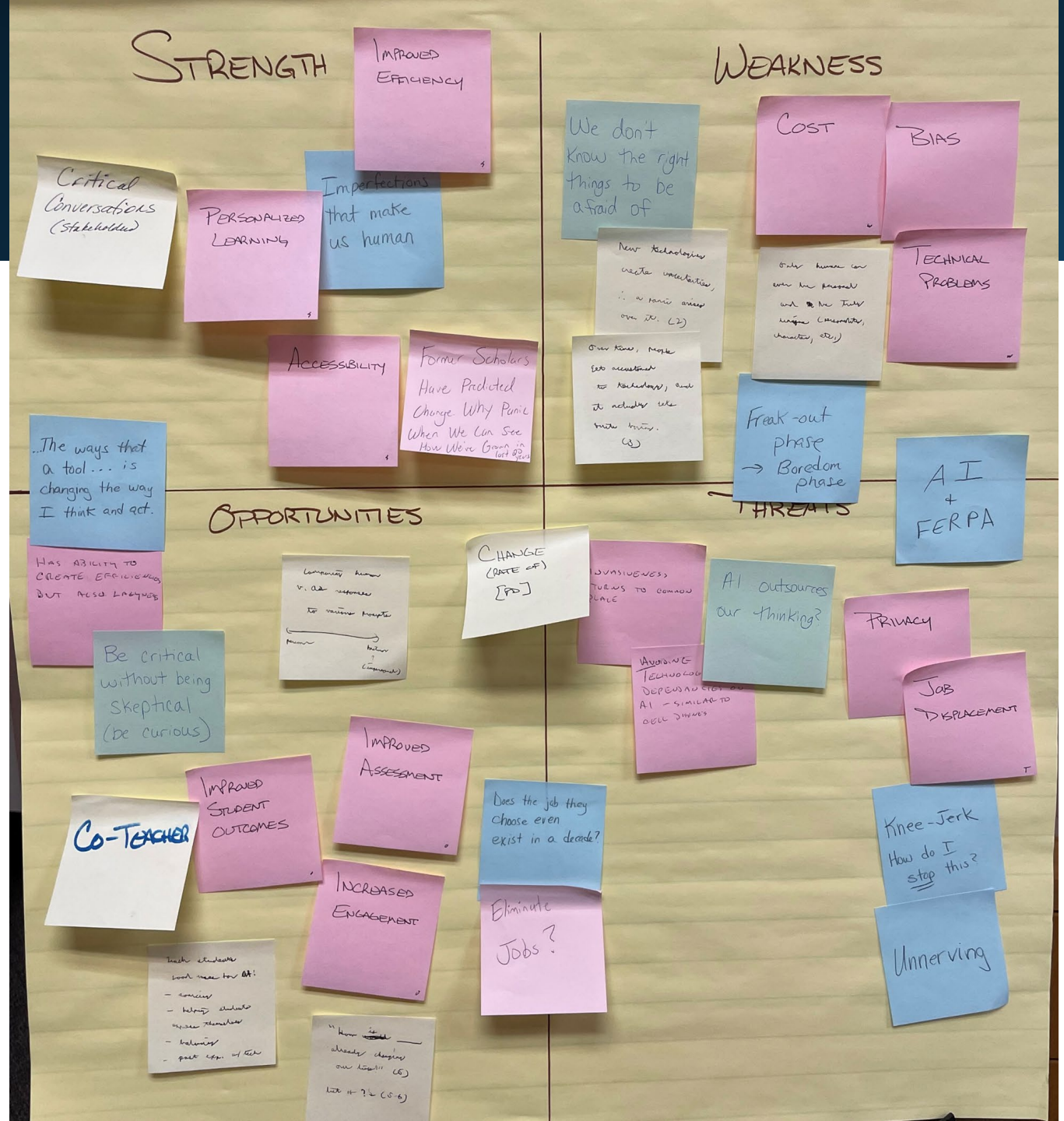
AI is HERE....



Google Docs
MS Word
Facebook
Snapchat




PROCESS
GROCERY LIST
milk
Eggs
Bananas
Bread
cereal


STRENGTH
IMPROVED EFFICIENCY
Critical Conversations (Stakeholder)
PERSONALIZED LEARNING
Imperfections that make us human
ACCESSIBILITY
Former Scholars Have Predicted Change. Why Panic When We Can See How We're Going in Last 20 Years
WEAKNESS
We don't Know the right things to be afraid of
COST
BIAS
TECHNICAL PROBLEMS
Freak-out phase → Boredom phase
...The ways that a tool... is changing the way I think and act.
OPPORTUNITIES
HAS ABILITY TO CREATE EFFICIENCY, BUT NEED SAFEGUARDS
Be critical without being skeptical (be curious)
CHANGE (RATE OF) [PD]
Co-Teacher
IMPROVED STUDENT OUTCOMES
IMPROVED ASSESSMENT
INCREASED ENGAGEMENT
THREATS
AI & FERPA
AI outsources our thinking?
PRIVACY
JOB DISPLACEMENT
Does the job they choose even exist in a decade?
Eliminate Jobs?
Knee-Jerk How do I stop this?
Unnerving

Where We've Been

- SWOT Analysis – Technology Think Tank
- Drop-in Sessions at RHS
- Student Focus Groups
- RHS Intro to AI PD
- Administrator PD
- Summer AI Cohort
  - Position Statement
  - AI Action Research
- Regional Consortia
- Policies Through the Lens of AI
- Back to School PD – RMS and RHS
- Released Copilot to adults
- Canva Challenge
- RHS/RMS Book Study
- Teacher Course (Awareness > Adaptation > Integration)
- Optional Diffit PD
- Optional AI for Elementary PD
- Discrete Skills Identification
- RHS Student Intro Lesson/Conversation
- Handbook Language for Elementary, RMS, RHS
- Digital Frontiers Course
- Parent Info Session


POSITION



AI Position Statement

RTSD AI Position Statement

At Radnor Township School District, in support of our mission and vision, we believe in harnessing the power of Artificial Intelligence alongside Human Intelligence to prepare our students for an evolving and unpredictable future.

POLICY



On Policy

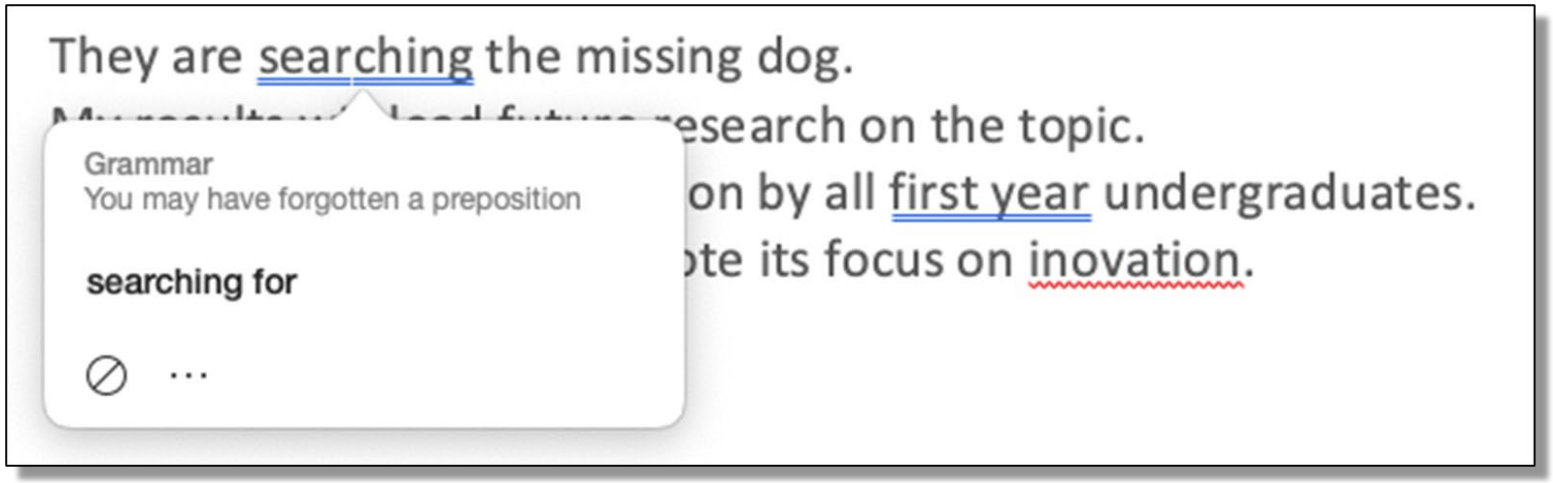
As AI is ever-evolving, we believe that policies should be *adapted*, as needed, through the lens of AI rather than policies be *developed* specifically *for* AI.

- District Policies
- Privacy Policies

Language

- Plagiarism
- Cheating

grammarly



Why AI Detectors Are Problematic

(and what to do instead)

- Have conversations w/students about appropriate use of AI
- Collect writing samples throughout the year to use as growth indicators
- Capture student reflections on the AI collaboration process
- Think of collaboration with AI as similar to working with a tutor
- Have students share about how much AI was used for idea generation and feedback and how it impacted the final writing



INFUSED AI classroom

- High frequency of false positives
- A lot of uncessary work for teachers
- Lack of transparency about how they actually work
- Discrimination against non-native English speakers
- Promotes a false assumption that this is always bad
- Many institutions of higher learning are now turning these off

RHS Honor Code - not an excuse

"The teacher didn't say I ***couldn't*** use it,"
is not an excuse.

If it's not specified, either:

- ASK.
- Do not use it.

RHS Honor Code - Cheating

- Unpermitted collaboration on assigned work, or work submitted by any student, including but not limited to papers, projects, products, lab reports, other reports, and homework
  Unauthorized use of a cheat sheet, marks/writing on body, teacher textbook, formula, note-card or notes, calculator/computer, cell phone, language-translation website or device, or any other technological device that would inappropriately enhance one's work
- Creating a disadvantage for another student by hoarding or by sabotaging materials or resources
- Unauthorized prior knowledge and/or use of tests, quizzes, midterms, finals, or other assignments
- Having another individual or software (such as AI) take a test or prepare an assignment, or assist in the test or assignment without approval
- Sending or receiving unauthorized information through: hand signals or other gestures, talking, text messaging, looking at someone else's test, showing your own test, or (during an in-class essay) other electronic/digital resources
- Using unauthorized software or applications when not expressly permitted by the instructor for the assignment or exam

RHS Honor Code - plagiarism

To steal: To get, take, or give another's property or ideas without permission or acknowledgement. [The resource used in the development of this definition was Webster's New World Dictionary, 3rd ed.] With regard to academic performance, conduct that constitutes **stealing** includes, but is not limited to, cases illustrated by the following examples:

- Plagiarism: The copying and/or use of language, ideas, thoughts, images, programming, or computer code without proper acknowledgement/citation or permission of the instructor/assignment guidelines
- The purchasing and/or using of content, work, or thoughts as your own

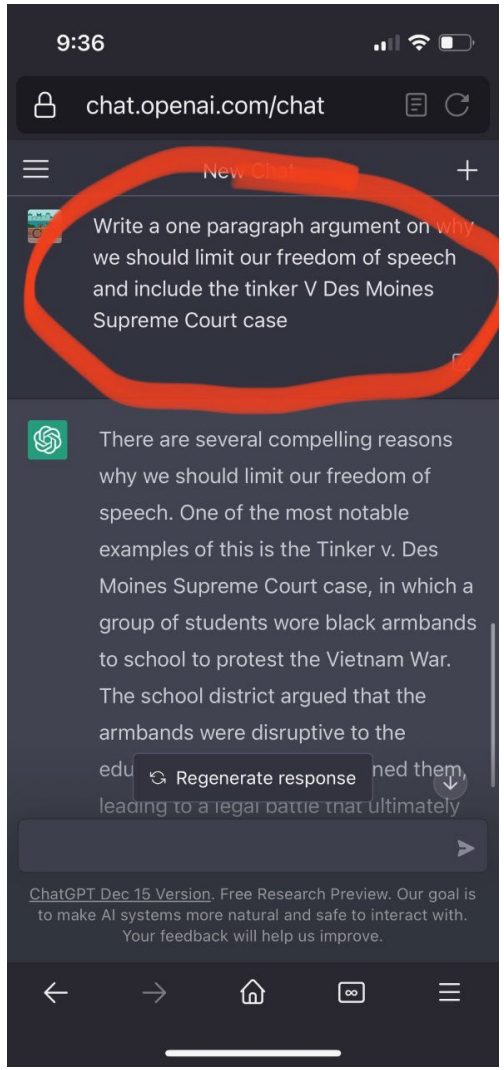


PRIVACY

The Fine Print



There are some concerns….



There are several compelling reasons why we should limit our freedom of speech. One of the most notable examples of this is the Tinker v. Des Moines Supreme Court case, in which a group of students wore black armbands to school to protest the Vietnam War. The school district argued that the armbands were disruptive to the educational process and banned them, leading to a legal battle that ultimately reached the Supreme Court. In its ruling, the Court held that students do not "shed their constitutional rights to freedom of speech or expression at the schoolhouse gate." This case is often cited as an important defense of free speech rights, but it's important to recognize that there are limits to this freedom. For example, we should not be allowed to use speech to incite violence or to engage in hate speech that targets marginalized groups. In order to protect the rights of all members of society, we must be mindful of the power of our words and recognize that there are limits to what we can say and do in the public sphere.



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PROMPTING & POSSIBILITIES

There are some amazing possibilities….

- ✓ Don’t understand a topic?
- ✓ Want to create a custom image to go with your writing?
- ✓ Wonder what JFK was thinking during the Cuban Missile Crisis?
- ✓ Want to create a unique tune to use as an intro in your podcast?

There are some amazing possibilities….

- New Forms of Interaction
- Content Differentiation
- Adaptivity
- Enhance Feedback Loops
- Support Educators

Prompt Engineering

CRAFT a Power Prompt



CONTEXT

CONTEXT
Add specific details to help the AI target your specific needs; these can be embedded throughout the prompt



ROLE

Role
Assign the AI a role for more targeted response
"You are an excellent 8th grade math teacher"



AUDIENCE

AUDIENCE
Provide specific details about the Audience
ESL students, 8th grade parent, CTE teachers



FORMAT

FORMAT
Output format, length, style, Rap, Song, HTML
Providing examples may help the model



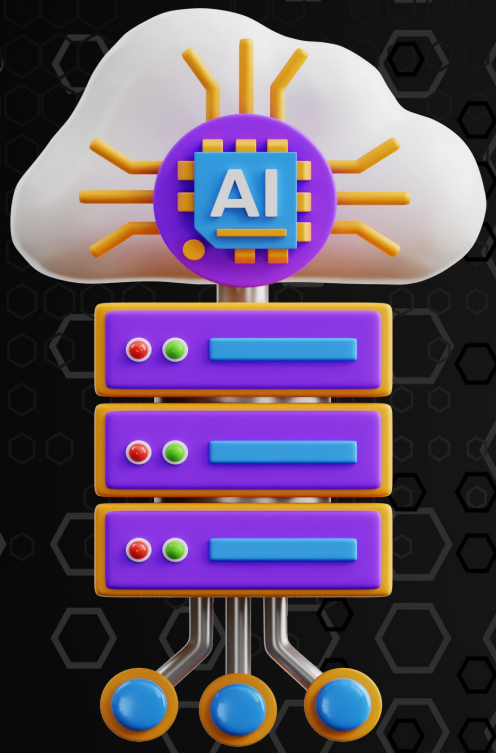
TASK & TONE

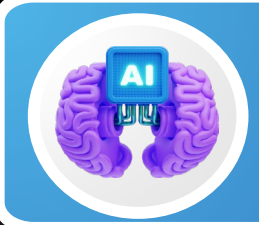
TASK
What you want action you want the AI to do for you; evaluate, create, edit, revise,brainstorm, etc
TONE professional, friendly, caring, etc



The CRAFT framework was created by Vera Cubero

Problem, Prompt, Preview, and Publish





Define the Problem

Define the problem. What question are you trying to answer? Formulate the problem.



Engineer the Prompt

Write out the question. Refine it. Work the prompt.



Preview it

Is it correct? Does it include bias? Does it make sense based on what you already know?



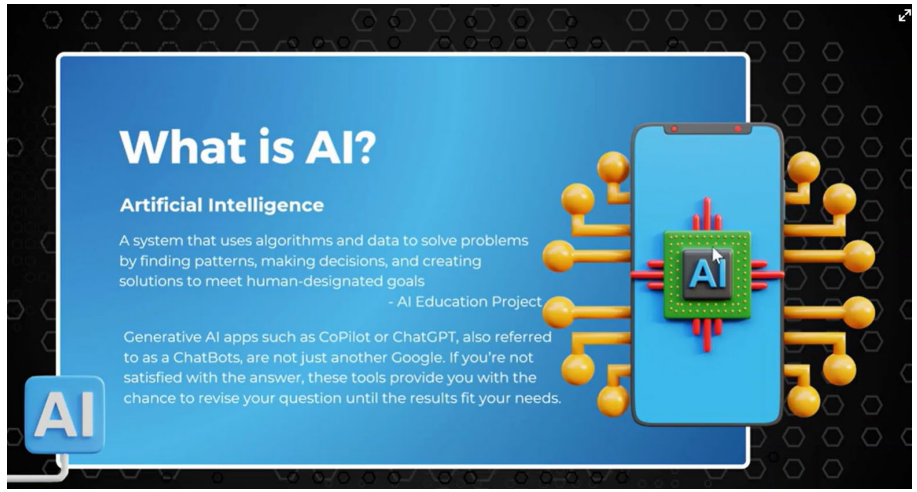
Publish it

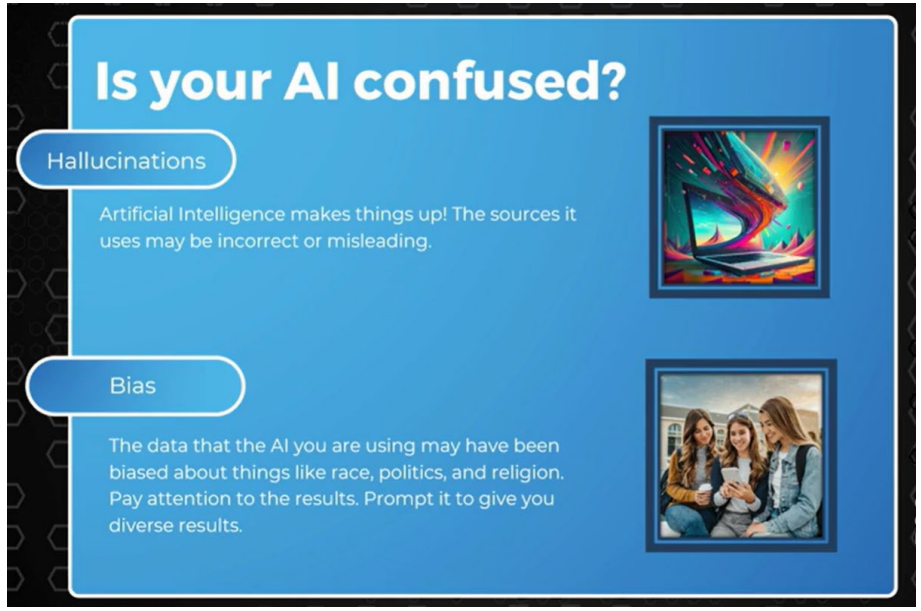
How will you share your work with the world? Is this academic research? Is it a school project? Is it for work? What do you need to cite? How will you cite it?

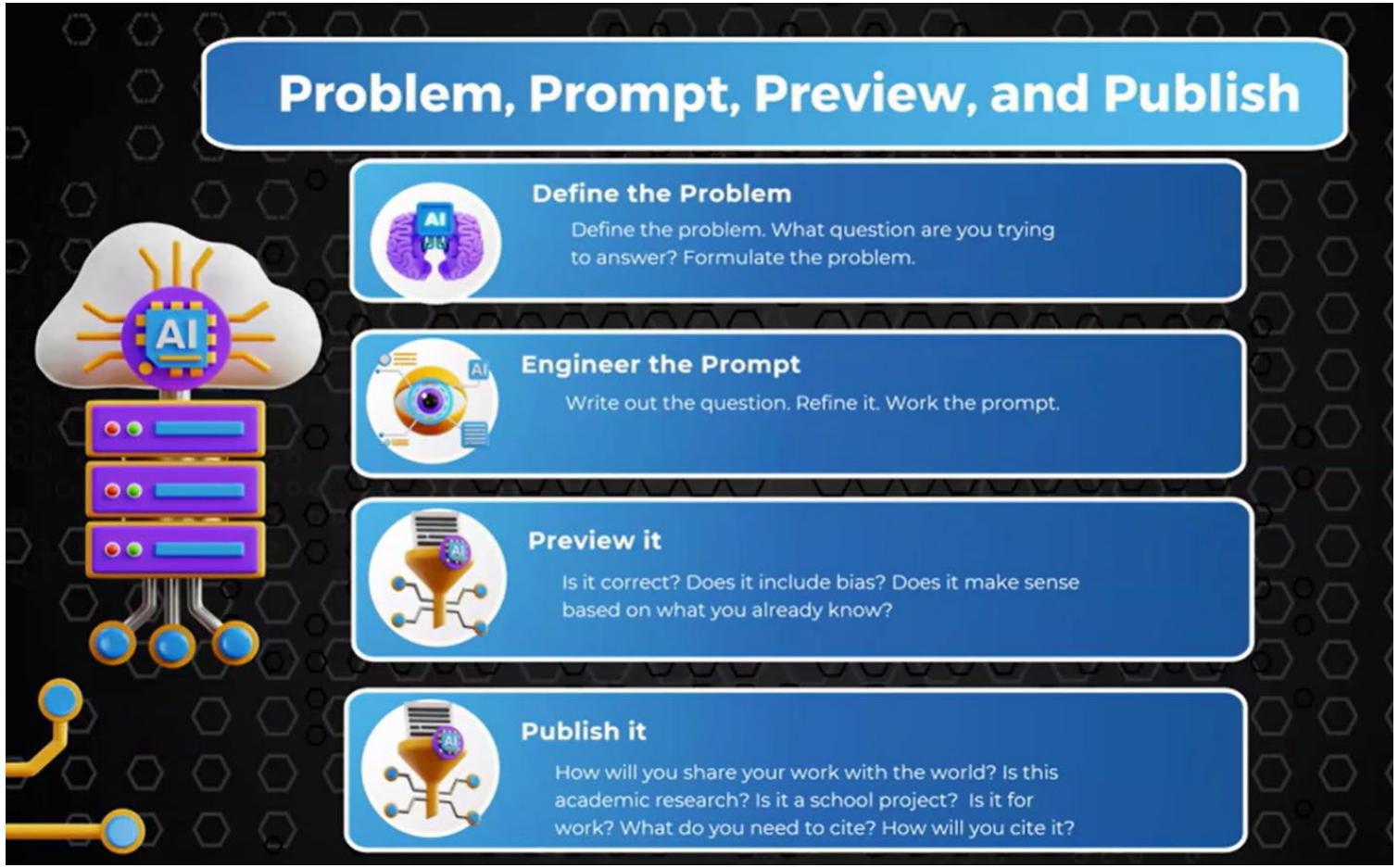
PRACTICE



RHS AI Intro Lesson







Your students may see change….

Can I Use AI on this Assignment?

Generative AI Acceptable Use Scale

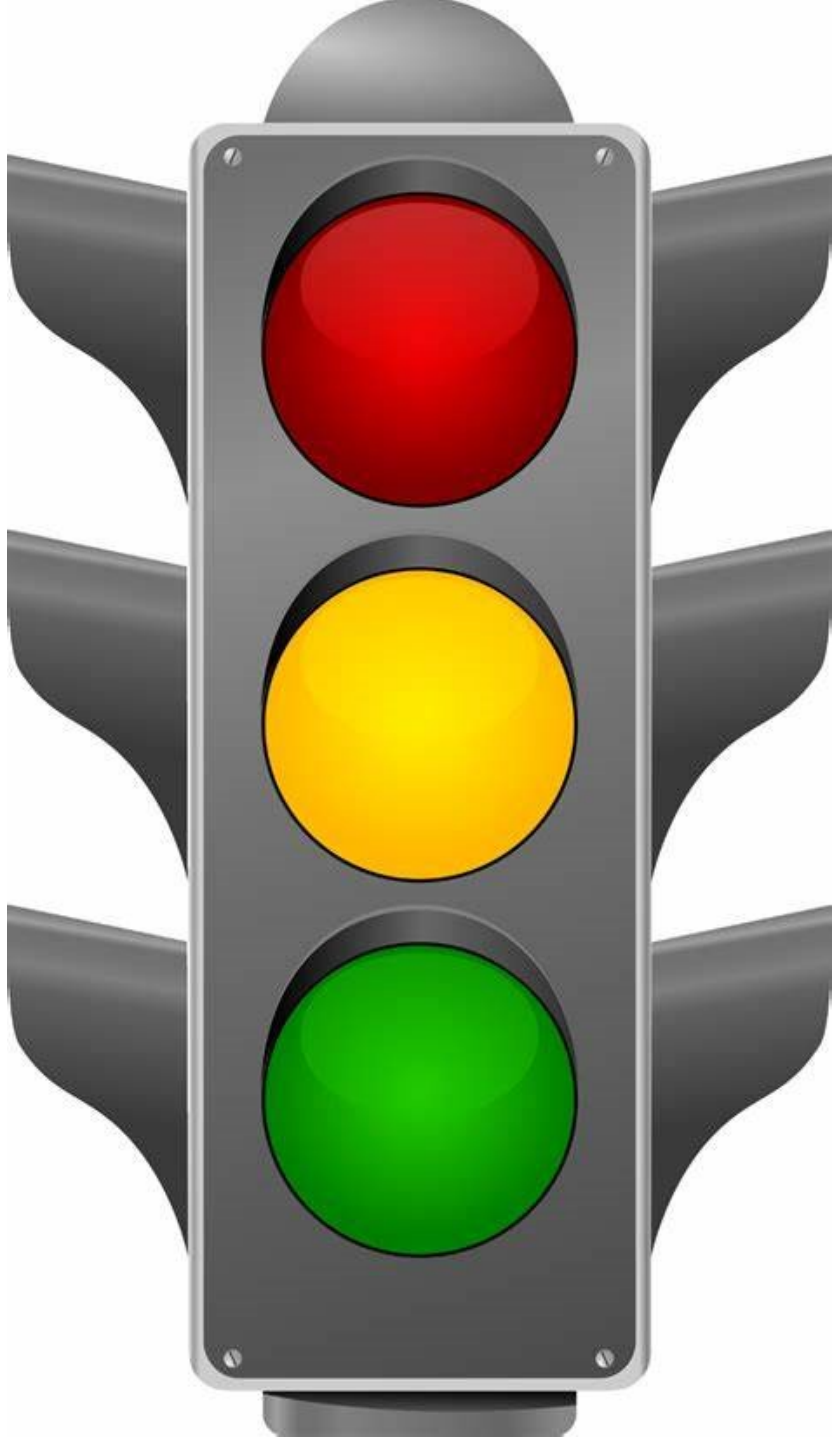
Generative AI refers to any of the thousands of Artificial Intelligence tools in which the model generates new content (text, images, audio, video, code,etc)
This includes, but is not limited to, Large Language Models/ LLMs such as ChatGPT, Google Bard,etc, Image creators such as Dall-E3, Adobe Firefly, and any tools with built in generative AI capabilities such as Microsoft CoPilot, Google Duet, Canva, etc etc)

	Level of AI Use	Full Description	Disclosure Requirements
0	NO AI Use	This assessment is completed entirely without AI assistance. AI Must not be used at any point during the assessment. This level ensured that student rely solely on their own knowledge, understanding, and skills.	No AI disclosure required May require an academic honesty pledge that AI was not used.
1	AI-Assisted Idea Generation and Structuring	No AI content is allowed in the final submission. AI can be used in the assessment for brainstorming, creating structures, and generating ideas for improving work.	AI disclosure statement must be included disclosing how AI was used. Link(s) to AI chat(s) must be submitted with final submission.
2	AI-Assisted Editing	No new content can be created using AI. AI can be used to make improvements to the clarity or quality of student created work to improve the final output.	AI disclosure statement must be included disclosing how AI was used. Link(s) to AI chat(s) must be submitted with final submission.
3	AI for Specified Task Completion	AI is used to complete certain elements of the task, as specified by the teacher. This level requires critical engagement with AI generated content and evaluating its output. You are responsible for providing human oversight and evaluation of all AI generated content.	All AI created content must be cited using proper MLA citation. Link(s) to AI chat(s) must be submitted with final submission.
4	Full AI Use with Human Oversight	You may use AI throughout your assessment to support your own work in any way you deem necessary. AI should be a 'co-pilot' to enhance human creativity. You are responsible for providing human oversight and evaluation of all AI generated content.	You must cite the use of AI using proper MLA or APA citation. Link(s) to AI chat(s) must be submitted with final submission.

Adapted by Vera Cubero for the North Carolina Department of Public Instruction (NCDPI)
from the work of Dr. Leon Furze, Dr. Mike Perkins, Dr. Jasper Roe FHEA, & Dr. Jason Mcvaugh
Link to Original Work

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To remix this for your use case, you may make an editable copy, using this TEMPLATE LINK.
Please maintain CC licensing and all attributions in all duplications, references, or remixing.

Your students may see change….



What are we seeing at RTSD this year?

- Guiding Research
  - I don’t know where to begin.
  - Give me 3 speeches by Winston Churchill.
  - What kind of questions should I ask myself about these speeches?

- Modeling what AI does well and does not do well
  - Teacher gives the students a prompt and puts it into AI.
  - Class analyzes the response together

- Using AI with Intention
  - What type of feedback does this tool give me?
  - Do I get different feedback from another tool?

- Creating images to go along with writing



New Literacies

- AI Literacy
- Lateral Reading
- Bias Detection
- [Deep] Fake Identification
- Prompt Engineering
- Data Privacy

AI Literacy

The knowledge, skills, and attitudes associated with how artificial intelligence works, including its principles, concepts, and applications, as well as how to use artificial intelligence, such as its limitations, implications, and ethical considerations.

AI Ethics

- Authenticity
- Bias
- Environmental
- Anthropomorphization

What's Next?

- Handbook Language
- Digital Frontiers Course (RHS)
- Middle School & Elementary Lessons
- Media/AI Literacy Education

Now What?

common sense media

Common Sense Media
AI Initiative
www.commonsensemedia.org/ai

Helping Kids Navigate the World of Artificial Intelligence

- Talk about the benefits and risks of using artificial intelligence
- Try out AI tools together
- Talk about biases in tech
- Have conversations about plagiarism and cheating
- Ask your child's teachers and school for support

https://www.commonsensemedia.org/articles/helping-kids-navigate-the-world-of-artificial-intelligence