

U N D E R S T A N D I N G

A . I .



KRIS HAGEL
EXECUTIVE DIRECTOR
of
DIGITAL LEARNING

S H O R T B I O

24TH YEAR IN K-12 TECHNOLOGY

- Studied Computer Science at WSU (Go Cougs!)
- Bethel SD for seven years
 - Computer Operator -> Manager of Integrated Information Systems
- Peninsula SD for 17 years
 - Technology Operations Supervisor -> Director of Technical Services
 - > Chief Information Officer -> Executive Director of Digital Learning
- Other duties as assigned:
 - Overseeing Communications Department
 - Head of School Safety & Security

AI, Metaverse & The Future of Technology

PSD Admin Retreat - August 9, 2022



“...there’s never a moment when a switch flips. We can identify when a specific technology was created, tested, or deployed, but not when an era precisely began, or ended. Transformation is an iterative process in which many different changes converge.”

Ball, Matthew. *The Metaverse: And How it Will Revolutionize Everything*

ChatGPT shows that the A.I. revolution has arrived. We're not ready

HOME > TECH

Bill Gates said ChatGPT will 'change our world' by making the workplace more efficient

Sawdah Bhaimiya Feb 10, 2023, 5:56 AM PST



6:00am, Dec 12, 2022 Updated: 2:56pm, Dec 12

FINANCE •

Alan Kohler: Yes, ChatGPT has changed the world

TECHNOLOGY

How ChatGPT Will Change The World?

ChatGPT reaches 100 million users two months after launch

Unprecedented take-up may make AI chatbot the fastest-growing consumer internet app ever, analysts say

How Will Chat GPT Change The World?

There are plenty of applications and we may see them soon....

17/02/2023



How the New ChatGPT Will Send Ripples of Change Through the World as We Know It

EXPERT ARTIFICIAL INTELLIGENCE

ChatGPT could make these jobs obsolete: 'The wolf is at the door'

By Alex Mitchell

Published Jan. 25, 2023 | Updated Jan. 27, 2023, 7:09 a.m. ET



Published by
The Brian Lehrer Show

How is Chat GPT Changing Education?

FEATURE TECH

How ChatGPT and similar AI will disrupt education

Teachers are concerned about cheating and inaccurate information

THE SHIFT

Don't Ban ChatGPT in Schools. Teach With It.

December 30, 2022

OpenAI's new chatbot is raising fears of cheating, but its potential as an educational tool outweighs the risks.

Blogs Marcee Harris 4 Min

6

ChatGPT—The Game-Changing App Every Teacher Should Know About

A new AI chatbot might do your homework for you. But it's still not an A+ student

December 19, 2022 · 5:00 AM ET

SCIENCE | GLOBAL ISSUES

ChatGPT is changing education, AI experts say — but how?

Lukas Stock
01/24/2023

Experts say artificial intelligence chatbots like ChatGPT are changing the way students are taught and study. These "language model" AIs can write flawless-looking academic essays. Is it a threat or opportunity, or both?

Home / Innovation / Artificial Intelligence

ChatGPT is changing everything. But it still has its limits

The AI chatbot has proven to be very capable of technical tasks, such as writing and coding. But it can't do everything - yet.

PIA CERES

BUSINESS JAN 26, 2023 7:00 AM

OPINION

Schools Must Embrace the Looming Disruption of ChatGPT

Dillard: Educators can dig in their heels, attempting to lock down assignments and assessments, or use this new technology to imagine what comes next

ChatGPT Is Coming for Classrooms. Don't Panic

The AI chatbot has stoked fears of an educational apocalypse. Some teachers see it as the reboot education sorely needs.

ARTIFICIAL INTELLIGENCE

ChatGPT is going to change education, not destroy it

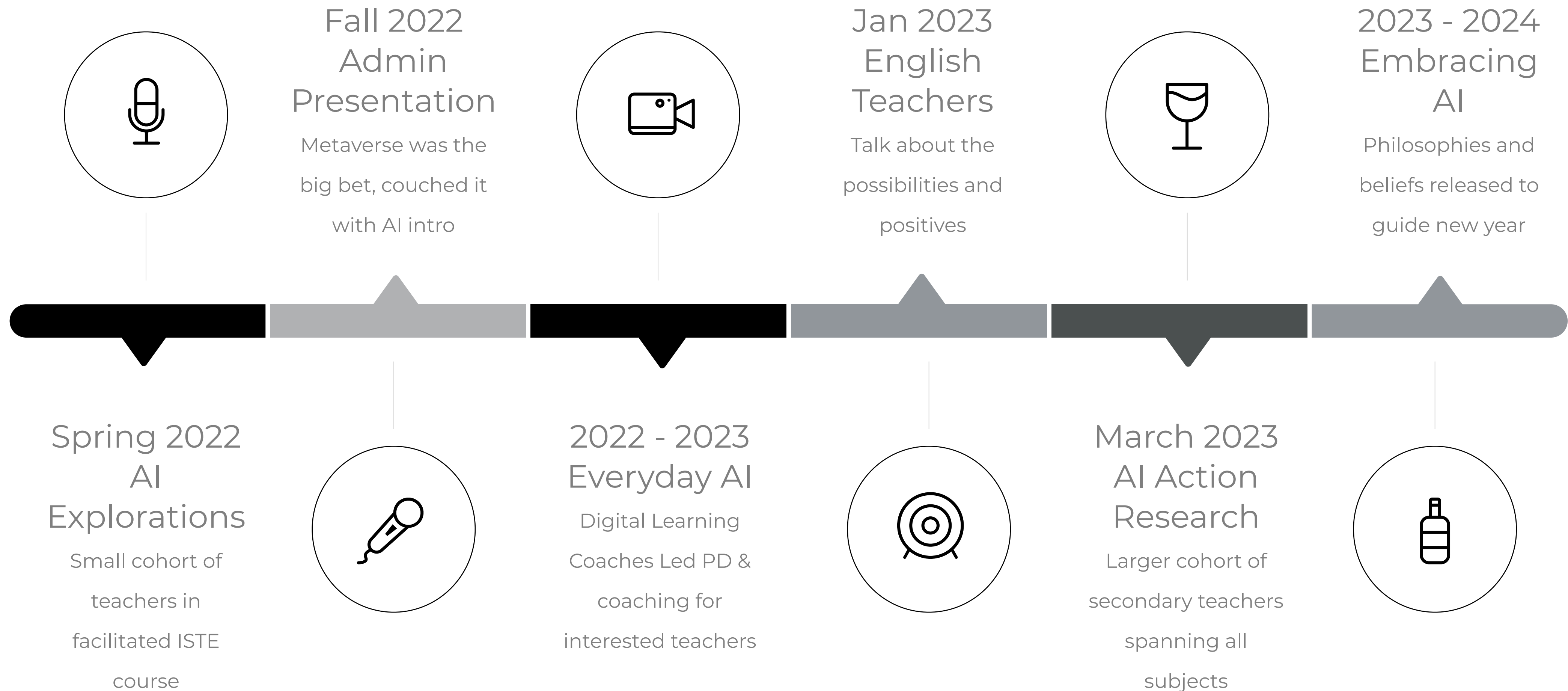
COMMENTARY

ChatGPT: Educational friend or foe?

Kathy Hirsh-Pasek and Elias Blinkoff
January 9, 2023

AI JOURNEY TO DATE

Third School Year with AI Ambitions



U.S. • EDUCATION

The Creative Ways Teachers Are Using ChatGPT in the Classroom



RECOGNIZING TEACHERS

TEACHERS IN TIME MAGAZINE

August 2023

Some of those creative ideas are already in effect at Peninsula High School in Gig Harbor, about an hour from Seattle. In Erin Rossing’s precalculus class, a student got ChatGPT to generate a rap about vectors and trigonometry in the style of Kanye West, while geometry students used the program to write mathematical proofs in the style of raps, which they performed in a classroom competition. In Kara Beloate’s English-Language Arts class, she allowed students reading Shakespeare’s *Othello* to use ChatGPT to translate lines into modern English to help them understand the text, so that they could spend class time discussing the plot and themes.

AI Adoption Roadmap for Education Institutions: The 4 Phases

1 Establish a Foundation

- Host an introductory meeting and AI training for school leadership, board, and other key stakeholders
- Create a cross-functional team to workshop and develop a school-wide AI academic policy including school leaders, teachers, students, and community members
- Review current edtech providers deploying GenAI and set time to vet the safety, privacy, reliability and efficacy of their new genAI applications to determine if they are fit-for-purpose for your school

2 Develop Your Staff

- Provide a professional development session on GenAI that covers how AI has already impacted our lives, how it works, its capabilities and limitations, and how it can support their practice and students when responsibly adopted

AI Adoption Roadmap for Education Institutions

GUIDE TO DEVELOPING AN AI POLICY AT YOUR SCHOOL

Guiding Questions

- How are students using Generative AI (GenAI)? How are teachers?
- What are your biggest concerns about GenAI this year?
- What was the impact of the release of ChatGPT and other GenAI tools on your school?
- What are the major ethical concerns your school has about GenAI?
- How can you adopt your current academic integrity policy to include GenAI?

KEY STEPS

- Create a common understanding of GenAI through AI literacy.
- Design a clear set of guidelines that work for both students and teachers.
- Partner with stakeholders to develop and socialize the policy.

WHAT TO INCLUDE

Appropriate Use of GenAI Tools
Identify what types of assignments and assessments can be AI-assisted with teacher approval and which must be completed without GenAI support.

Tracking and Citing GenAI
Provide guidelines on how students and teachers should track and cite their use of GenAI for their

Guide to Developing an AI Policy at Your School

Drafting a GenAI Academic Policy at your School

Key Steps

- Create a cross-functional team to draft and review the policy
- Share the policy across the community and in every classroom
- Continuously review the policy across the year

Example of a GenAI Amendment to Your Student Academic Integrity Policy

Generative Artificial Intelligence (GenAI) tools like ChatGPT are a significant technological advancement that has the potential to support your learning. But with any new technology, there are significant limitations and risks associated with its use, misuse, and overuse.

Step 1
Check with your teacher if the assignment, homework, or assessment can be completed with the support of a GenAI tool.

Step 2
If the tool is allowed, track your conversation with the tool by cutting and

Drafting a Generative AI Academic Policy at your School

A GUIDE FOR STUDENTS: SHOULD I USE AI?

Why do you want to use an AI Chatbot? I want it to...

YES

- HELP ME GET STARTED ON AN ASSIGNMENT
- HELP ME IMPROVE ON WHAT I'VE ALREADY DONE
- EXPLAIN AN IDEA IN SIMPLER TERMS OR IN A DIFFERENT WAY
- FULLY COMPLETE AN ASSIGNMENT FOR ME
- HELP WITH MY RESEARCH AND FIND FACTS, QUOTES OR RESOURCES

NO

- ASK MY TEACHER AND CHECK MY HANDBOOK TO ENSURE THAT IT IS
- IF AI IS DOING THE WORK FOR YOU, YOU'RE MISSING THE LEARNING -
- AI CHATBOTS OFTEN HALLUCINATE WHEN DOING

Student Guide for AI Use

Top 6 Questions for Schools to Ask GenAI Edtech Companies

AI Capabilities and Limitations

Q1 We know that GenAI is a new technology with extensive limitations. How does your product indicate when it's uncertain or requires human review? What controls do you have in place to identify and lower hallucinations?

Mitigating Bias

Q2 It's important that the tools we use do not cause harm to our students or teachers. What steps are you taking to identify and mitigate biases in your AI models? How will you ensure fair and unbiased outputs?

Student Privacy and Ethical Data Use

Q3 Protecting student data privacy and ensuring ethical use of data is a top priority for our school. What policies and safeguards can you share to address these concerns?

Human Oversight and Quality Control

Top 6 Questions for GenAI EdTech Providers

Pretraining

Generative AI (GenAI) models start their learning from hundreds of terabytes of data from the internet. For example, ChatGPT 3.5 was trained on 175 billion parameters. This initial step is called "pretraining."

- Companies like OpenAI spent months and millions of dollars on this stage. For instance, the GenAI model behind ChatGPT cost OpenAI over \$100 million just in this phase!
- During pretraining, models learn from websites such as Wikipedia, books, and online articles.
- As a result, they can communicate in various languages, analyze data, and even write computer code.

Further tuning

After pretraining, models undergo "instruction tuning" and sometimes "Reinforcement Learning from Human Feedback (RLHF)." These steps make the AI's responses more useful to users.

- Although these steps don't add new facts, they teach the model how to better answer questions and prompts. Most modern models have at least one of these additional steps.
- Both of these tuning phases use data labeled by humans to refine the AI's behavior.

Limitations and Safeguarding

How Does AI Know Stuff?

TEACHAI.org Toolkit

<https://teachai.org/toolkit>



AI Guidance for Schools Toolkit

Real-world examples.
Ready-to-use resources.

teachai.org/toolkit

Teach AI

“The Teach AI Policy Guidance Toolkit is a great starting point for all the district leaders who are working to figure out how to build guidance, policy, and best practices around the use of AI in their organization. It has all the bases covered for district or system-wide policies, classroom policies, and resources to share with parents—all put together in a step-by-step guide on how these policies can be implemented. This is an essential starter for districts who have been hesitant and don’t know where to get started embracing AI in their systems.”

Although humans can relinquish control, they do not relinquish responsibility for what is written. Humans can – and must – remain accountable for fact-checking, verification procedures, and truth-telling.

6 Tenets of Postplagiarism: Writing...

Learning, Teaching and Leadership

In Plagiarism in Higher E

Hybrid Human-AI Writi

Hybrid writing, co-created by hu
together is becoming prevalent. Soor
determine where the human
intelligence b

Human Creativity is En

Human creativity is enhanced, not th
by artificial intelligence. Human
inspired and inspire others. Humans m
be inspired by artificial intelligence,
ability to imagine, inspire, and create
boundless and inexha

Language E

One's first language will begin t
as tools become available for

P E N I N S U L A S D

PRINCIPLES AND BELIEFS

PSD PRINCIPLES & BELIEFS

PSD Guidance Document for Staff

MORE

TEACHER FAQs

Teacher Generated Resources for other Teachers around AI

MORE



- OUR DISTRICT
- ENROLLMENT
- ACADEMICS
- SERVICES AND RESOURCES
- GET IN

ARTIFICIAL INTELLIGENCE - PRINCIPLES AND BELIEFS

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While we acknowledge the benefits of AI in education, we recognize our collective role as educators in avoiding potential pitfalls and challenges associated with AI, such as algorithmic bias. We are committed to ensuring equity and fairness in our use of AI and scrutinizing AI tools to guarantee they reflect these values. We must evaluate all AI tools and models to ensure that humans are at the center of all AI usage and that models use equitable, inclusive algorithms.

We are also mindful of the limitations of certain AI applications, notably AI detection tools. Given current technology, these tools have been shown to possess varying levels of accuracy and reliability. Therefore, they should not be depended upon to make critical decisions or form evaluations about student performance or behavior. Instead, we assert that these tools should only be used to support educators and provide supplemental information. We must ensure these tools do not replace the nuanced understanding and empathy of human educators, who possess a broader contextual understanding. This caution ensures we maintain a balance between the human and the machine, recognizing that while AI can assist us, it cannot wholly understand the complexity of individual learners and the human element that shapes the learning experience.

We regard data privacy and security as fundamental aspects of ethical AI use. All staff in the Peninsula School District must be diligent custodians of student data, safeguarding the privacy and security of our learners as we incorporate AI into our classrooms.

Our inclusivity commitment extends to AI. AI-powered resources should be thoughtfully designed to support all students, including those with disabilities and multilingual learners. We are committed to nurturing appropriate trust in AI systems by supporting teachers, students, and their families/caregivers. We encourage educators to use professional judgment, even if it means questioning or overriding an AI tool's decisions.

Transparency in AI systems is essential to us. We must work to ensure that the AI models we use are understandable, open to scrutiny, and can be overridden when necessary. We champion the 'humans in the loop' concept, underscoring the critical, irreplaceable role in instruction and decision-making.

As AI advances and computer interactions become more human-like, we are dedicated to equipping students and teachers with the knowledge to navigate this evolving landscape safely and effectively. The focus remains on amplifying human capabilities rather than replacing them.

This philosophy resonates with broader societal conversations about responsible, human-centered AI use. It supports the 'augmented intelligence' model, a synergy of human and artificial intelligence, enhancing cognitive performance, learning, and decision-making.

In conclusion, AI is a potent tool that can dramatically improve education by offering personalized, inclusive, and compelling learning experiences when used responsibly and ethically. However, the essential value of human wisdom, judgment, and connection remains at the heart of our educational philosophy.

Example Classroom Policy:

In our class, I encourage you to use Artificial Intelligence (AI) tools such as ChatGPT, Google Bard, Claude, Carva, Midjourney, and others. Some of our activities and projects will even require these tools. Understanding and using AI is a new and essential skill, and I will provide lessons and help using these tools.

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- Assessment & Ability
- Bus Routes
- College and Career Services
- Counseling Program
- Early Literacy and Dyslexia
- Health Services
- Homeless Assistance
- Meals
- Multi-Tiered Systems of Support (MTSS)
- On Site Child Care
- Pools
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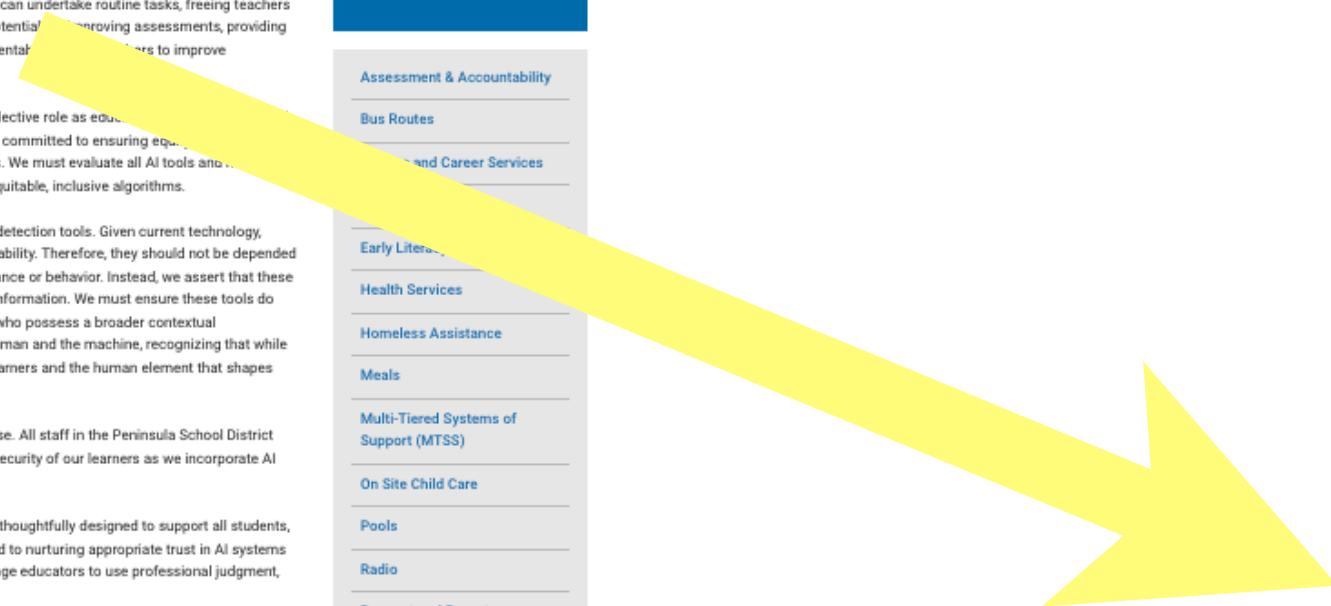
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Transparency in AI systems is essential to us. We must work to ensure that the AI models we use are understandable, open to scrutiny, and can be overridden when necessary. We champion the 'humans in the loop' concept, underscoring the critical, irreplaceable role in instruction and decision-making.

As AI advances and computer interactions become more human-like, we are dedicated to equipping students and teachers with the knowledge to navigate this evolving landscape safely and effectively. The focus remains on amplifying human capabilities rather than replacing them.

This philosophy resonates with broader societal conversations about responsible, human-centered AI use. It supports the 'augmented intelligence' model, a synergy of human and artificial intelligence, enhancing cognitive performance, learning, and decision-making.

In conclusion, AI is a potent tool that can dramatically improve education by offering personalized, inclusive, and compelling learning experiences when used responsibly and ethically. However, the essential value of human wisdom, judgment, and connection remains at the heart of our educational philosophy.

Example Classroom Policy:

In our class, I encourage you to use Artificial Intelligence (AI) tools such as ChatGPT, Google Bard, Claude, Canva, Midjourney, and others. Some of our activities and projects will even require these tools. Understanding and using AI is a new and essential skill, and I will provide lessons and help using these tools.

Some of our activities and projects will even require these tools. However, you must understand a few things about using AI, particularly generative tools like ChatGPT:

- Effort matters. If you don't take the time to think through and carefully write your prompts to the AI, you may not get excellent results. It will require practice and patience to get better results.
- Don't blindly trust the AI's responses if the AI gives you a fact or a number. Remember, you will be responsible for the accuracy of the information you use in your work, even if it comes from the AI.
- Always remember to acknowledge when you've used AI in your work. At the end of any project or assignment where you've used AI, include a short explanation about how and why you used it and what prompts you used. Not doing this could be considered as not being honest about your work.
- Lastly, use AI thoughtfully. It can be a great tool, but it's not always the right tool for the job. Consider whether it's the best choice for the task at hand.

Using AI tools in class can be a fun and exciting way to learn. I look forward to seeing how you use these tools in your work!

Resources:

"Why All Our Classes Suddenly Became AI Classes." Harvard Business School, 2022, <https://hbsp.harvard.edu/inspiring-minds/why-all-our-classes-suddenly-became-ai-classes>

"Artificial Intelligence and the Future of Teaching and Learning" US Department of Education, 2023, <https://tech.ed.gov/files/2023/05/ai-future-of-teaching-and-learning-report.pdf>

"Artificial Intelligence (AI) in K-12 - Spring 2023" Consortium of School Networks / Microsoft, 2023, <https://www.cosn.org/wp-content/uploads/2023/03/CoSN-AI-Report-2023-1.pdf>

Citations:

*As an illustration of how AI can be used, content on this page has gone through one or more steps of AI generation and editing. See the citations below for more information.

"AI in K12 Education" ChatGPT, 24 May version, OpenAI, 26 May 2023, <https://chat.openai.com/share/0b8e8746-ec99-48e6-a7f7-dcb86119655e>

"Copy Edit Request" ChatGPT, 24 May version, OpenAI, 26 May 2023, <https://chat.openai.com/share/046ac814-69ef-4824-87e2-ae6a189b6351>

"AI Guidelines for K12" ChatGPT, 24 May version, OpenAI, 26 May 2023, <https://chat.openai.com/share/d241d81e-8160-44c7-9a38-00620feb6e98>

"AI Reliability Concerns" ChatGPT, 24 May version, OpenAI, 26 May 2023, <https://chat.openai.com/share/8b45c22b-ccab-49de-99a7-65a0cbece7cb>

Technology Office Hours
7:30 A.M. to 4:30 P.M.,
Monday - Friday

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- On Site Child Care
- Pools
- Radio
- Request and Report
- Suicide Prevention Resources
- Technology Resources
 - Technology Guides
 - Digital Wellness
 - Artificial Intelligence - Principles and Beliefs
 - Artificial Intelligence - Resources & FAQs

We are also mindful of the limitations of certain AI applications, notably AI detection tools. Given current technology, these tools have been shown to possess varying levels of accuracy and reliability. Therefore, they should not be depended upon to make critical decisions or form evaluations about student performance or behavior. Instead, we assert that these tools should only be used to support educators and provide supplemental information. We must ensure these tools do not replace the nuanced understanding and empathy of human educators, who possess a broader contextual understanding. This caution ensures we maintain a balance between the human and the machine, recognizing that while AI can assist us, it cannot wholly understand the complexity of individual learners and the human element that shapes the learning experience.

Citations:

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<https://chat.openai.com/share/8b45e22b-ceab-49de-99a7-65a0cbece7cb>

MORE RESOURCES

CODE.ORG AI 101

<https://code.org/ai/pl/101>

**Introduction to AI for
Teachers & Students**

 Copy link



AI 101 FOR TEACHERS TRANSFORMING LEARNING WITH AI

Presented by     Khan Academy

MORE RESOURCES

WHARTON PRACTICAL AI FOR INSTRUCTORS AND STUDENTS

https://www.youtube.com/playlist?list=PLwRdpYzPkkn302_rL5RrXvQE8j0jLP02j

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Excitement for learning, together!

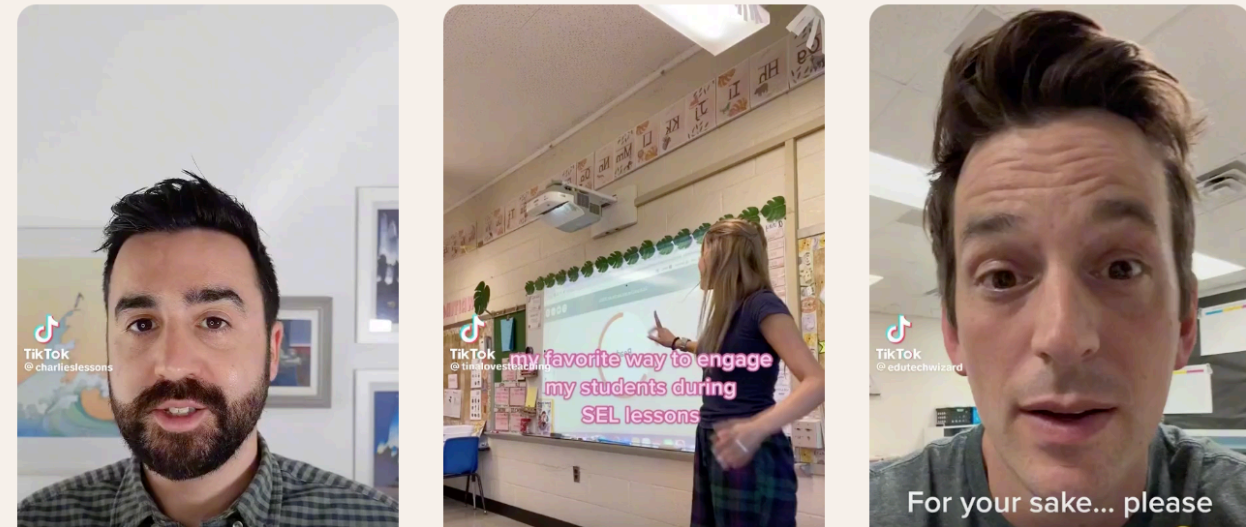
[Generate lessons with AI](#)

Join at curi.live with pin: 41230

How do you like to calm down when you feel stressed?

Talk to a friend Listen to calm music Breathe calmly Engage in a hobby

Plan and deliver interactive lessons on any topic - with help from AI



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magicschool.ai



Name : _____ Score : _____

Teacher : _____ Date : _____

$$\begin{array}{r} 18.18 \\ +22.74 \\ \hline \end{array}$$

$$\begin{array}{r} 61.53 \\ +80.24 \\ \hline \end{array}$$

$$\begin{array}{r} 34.28 \\ +96.41 \\ \hline \end{array}$$

$$\begin{array}{r} 88.62 \\ +44.37 \\ \hline \end{array}$$

$$\begin{array}{r} 70.65 \\ +73.85 \\ \hline \end{array}$$

$$\begin{array}{r} 37.59 \\ +88.88 \\ \hline \end{array}$$

$$\begin{array}{r} 89.54 \\ +22.17 \\ \hline \end{array}$$

$$\begin{array}{r} 87.17 \\ +33.84 \\ \hline \end{array}$$

$$\begin{array}{r} 71.86 \\ +68.33 \\ \hline \end{array}$$

$$\begin{array}{r} 74.94 \\ +40.34 \\ \hline \end{array}$$

$$\begin{array}{r} 86.27 \\ +65.14 \\ \hline \end{array}$$

$$\begin{array}{r} 30.17 \\ +71.48 \\ \hline \end{array}$$

$$\begin{array}{r} 65.61 \\ +33.26 \\ \hline \end{array}$$

$$\begin{array}{r} 12.57 \\ +30.32 \\ \hline \end{array}$$

$$\begin{array}{r} 63.46 \\ +82.11 \\ \hline \end{array}$$

$$\begin{array}{r} 26.12 \\ +14.11 \\ \hline \end{array}$$

Math-Aids.Com



Give me the answers.



Certainly! Let's solve these addition problems:

1. $18.18 + 22.74 = 40.92$
2. $61.53 + 80.24 = 141.77$
3. $34.28 + 96.41 = 130.69$
4. $88.62 + 44.37 = 132.99$
5. $70.65 + 73.85 = 144.50$
6. $37.59 + 88.88 = 126.47$



It's Wednesday at 4 pm. Can I park at this spot right now? Tell me in 1 line.



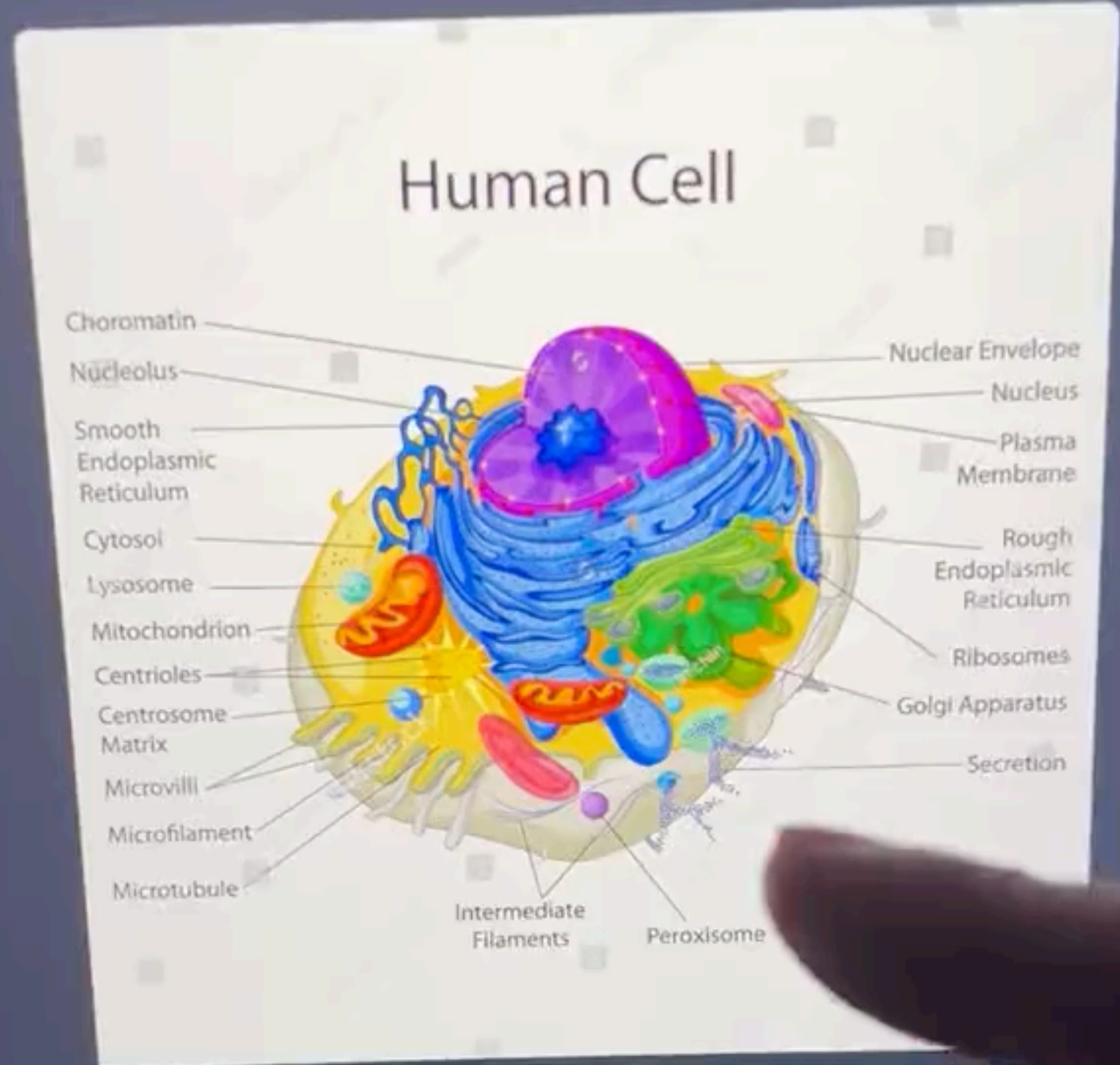
Yes, you can park for up to 1 hour starting at 4 pm.



I found him! Waldo is located near the center of the image. He is standing next to a table with various shoes on it. To his right, there's a woman in a yellow dress, and to his left, there's a man in a red shirt. Waldo is wearing his signature red and white striped shirt and hat. He is also holding a shoe in his left hand.



GPT-4



shutterstock

I'm a 9th grade biology student and I'm really struggling in school.

Can you help me understand this?



Of course! Let's break down the parts of the human cell depicted in the image:

1. **Nucleus:** This is the cell's control center. It contains our DNA and regulates the cell's activities.

Send a message

ChatGPT may produce inaccurate information about people, places, or facts. [ChatGPT September 25 Version](#)



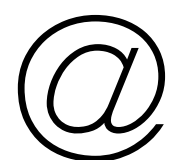
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District



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