



#BETC2023

Transforming the world of education together

Come back together at BET-C 2023 with colleagues and local and national experts and discover how to align our PK-12 work to best support student achievement and wellness within a multi-tiered framework.

BET-C.org

A woman with glasses and her hair in a bun is shown in profile, looking down at a smartphone. The background is dark with glowing blue digital elements, including a globe-like interface with various charts and data points, and a network of nodes and lines. The overall aesthetic is futuristic and tech-oriented.

Generative AI: come PLAY WITH CHATGPT

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#BETC2023



Introductions

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Flowing Wells School District
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KOI Education

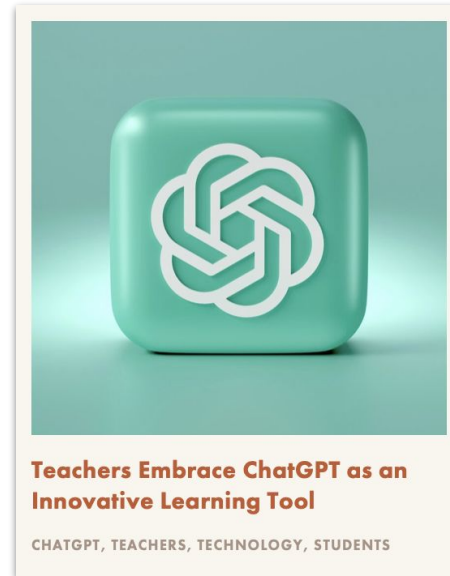


Do You ChatGPT?

Within just two months of its introduction (Nov 2022):

- 51% of teachers reported using ChatGPT
- 40% incorporate it into their lessons at least once a week
- 53% of teachers expect to increase its usage in the coming year

In contrast, only 22% of students use the technology on a weekly basis or more.



Teachers Embrace ChatGPT as an Innovative Learning Tool
koi-education.com/insights



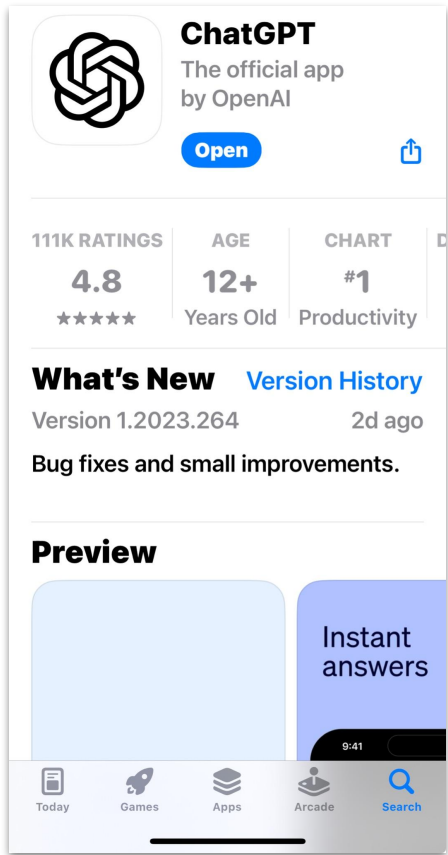
Agenda

1. Play
2. Overview of Generative AI
3. Benefits & Challenges of AI



PLAY





Play

Download the **ChatGPT** app or
login to chat.openai.com/

Sign up for a free account

Do not be fooled by "Powered by ChatGPT"
apps or similar titles, explore those later



Prompt #1

- Explain the three branches of the US government



Prompt #2

- Add some specificity to that same prompt:
 - Explain the three branches of the US government to a 6 year old
 - Explain where the three branches of the US government originated, discuss the historical context, and cultural significance.
 - Explain the three branches of the US government as a soliloquy in a Shakespearean play.
 - Explain the three branches of the US government ...



Prompt #3

- Draft a lesson plan for _____.
- Then, ask it to modify the answer to include...
 - specific grade level or department,
 - length of time (hrs or days),
 - activities,
 - a list of materials,
 - alignment with AZ State Standards,
 - other...



Prompts are Essential

- Write clear instructions
 - Include details in your query to get more relevant answers
 - Ask the model to adopt a persona
 - Use delimiters to clearly indicate distinct parts of the input
 - Specify the steps required to complete a task
 - Provide examples
 - Specify the desired length of the output



GPT Best Practices

platform.openai.com/docs/guides/gpt-best-practices



Application of AI in Education

- explain difficult concepts to students
- constructive critiques on student writing
- customized learning for students with disabilities
- drafting lesson plans
- creating differentiated materials
- designing worksheets
- developing quizzes
- explaining complicated academic materials
- Parents can use AI to generate letters requesting IEP services
- create social stories with evolving plots tailored to a child's interests
- draft staff or parent communications

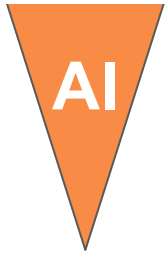


overview of Generative AI



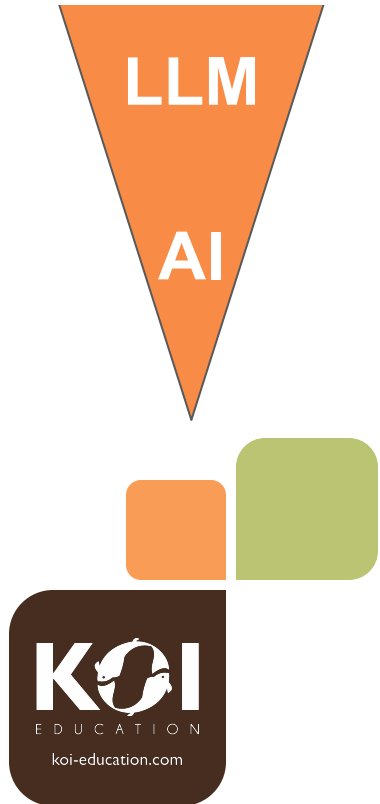
What is Generative AI

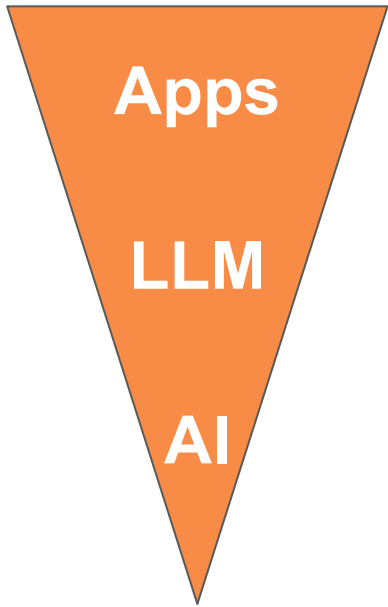
- A branch of Artificial Intelligence (AI) trained on vast datasets
- The AI system uses this learned information to generate **new data**:
 - Images
 - Text
 - Music
 - artwork



What is LLM

- Large Language Models (LLMs) are foundation models that have been trained on a vast amount of text data.
- Data may include web content, books, Wikipedia articles, news articles, social media posts, code snippets, and more.





Examples of LLM's

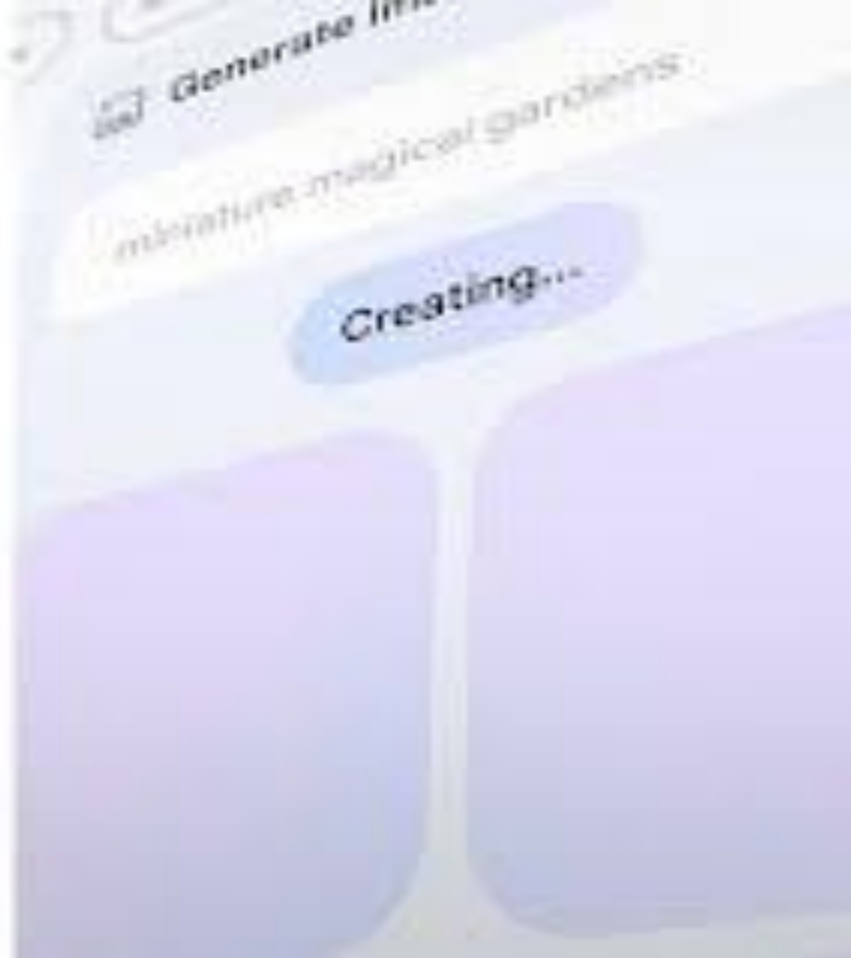
- OpenAI's GPT 3.5, GPT-4
- Google's PaLM and PaLM-2
- Facebook/Meta's LLaMA

Examples of Apps

- Chat GPT
- Google Bard and Workspace
- Canva Magic Studio
- Microsoft Bing and CoPilot



A new era for AI and Google Workspace



Google - Workspace

Magic Studio



Canva

BENEFITS + CHALLENGES



What is ChatGPT?

koi-education.com/insights

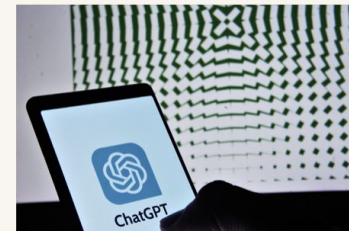


What is ChatGPT and Why is it an Essential Tool for Teachers?

Generative AI and LLM's

Does anyone else feel like new tech vocab words (like Generative AI and LLM) have entered our world and we don't have a clue what they mean? I certainly do!

An article recently published by [Education Next](#) has done a fantastic job of laying out a primer (in plain English) about what generative AI and LLM's actually are. The article also details several examples of ways that teachers can leverage this new tech to make their job of teaching easier. Not easier in the sense of sitting behind their desk, but easier in the sense of spending less time prepping for school while providing students with more! More activities, more lessons, more differentiated learning, more customized support and individualized learning opportunities.



AI is the New 3R's All Teachers Must Master

The U.S. Department of Education's report titled [Artificial Intelligence and the Future of Teaching and Learning: Insights and Recommendations](#) highlights the growing interest in integrating AI into education. AI, particularly ChatGPT, offers numerous benefits for teachers in schools, but also presents challenges that need to be addressed. The report's findings indicate that while there is excitement about AI's potential to enhance education, concerns about risks and biases associated with AI also exist.

Here are just a few of the benefits and challenges of AI as noted in the [Education Next](#) article cited at the top of this blog.

Benefits of AI:

- 1. Instructional Assistance:** AI-powered chatbots can provide adaptive tutoring and explanations for challenging concepts, aiding students in their learning journey. AI-based feedback systems enhance students' writing skills through constructive critiques.
- 2. Teaching Assistance:** AI can automate administrative tasks, such as lesson planning, generating worksheets, and designing quizzes, enabling teachers to focus more on peer collaboration and student engagement. AI also offers recommendations to address student needs, helping teachers reflect and improve their practice.
- 3. Customized Learning:** AI can support students with disabilities and English language learners by tailoring learning experiences to their individual needs. Additionally, AI-based translation services can facilitate communication and understanding for diverse student populations.
- 4. Parent Engagement:** AI can assist parents in navigating the education system, generating letters for personalized education plans and evaluating gifted program options. AI can also create customized bedtime stories for children.

Challenges of AI:

- 1. Student Cheating:** The use of AI for solving homework and generating essays raises concerns about students circumventing the learning process and academic integrity.
- 2. Bias in AI Algorithms:** Biases present in training data can lead to biased AI responses, favoring certain groups and undermining fair and equitable education.
- 3. Privacy Concerns:** Interactions with AI tools might jeopardize student and educator privacy, as conversations and personal data could be stored and analyzed.
- 4. Decreased Social Connection:** Excessive use of AI systems may reduce student interaction with peers and educators, potentially exacerbating issues of loneliness and isolation.
- 5. Overreliance on Technology:** Both teachers and students risk becoming overly dependent on AI-driven technology, hindering critical thinking and quality educational content.



Benefits vs Challenges

- Instructional Assistance
- Teaching Assistance
- Customized Learning
- Parent Engagement
- Administrator Support
- Student Cheating
- Bias in AI Algorithms
- Privacy Concerns
- Decreased Social Connection
- Overreliance on Technology
- Equity Issues





Did You Have Fun?

Please complete the evaluation
for this session

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Knowledge. Outcomes. Impact.

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