

Revolutionizing Education

The Power of Integrating
ChatGPT in Teaching

PRESENTATION



Chat Bots

```
EEEEEE LL III ZZZ AA AA
EEEEEE LL II ZZZ AAAAAAA
EE LL II ZZZ AAAAAAA
EE LL II ZZZ AA AA
EEEEEEE LLLLLL IIII ZZZZZZZ AA AA

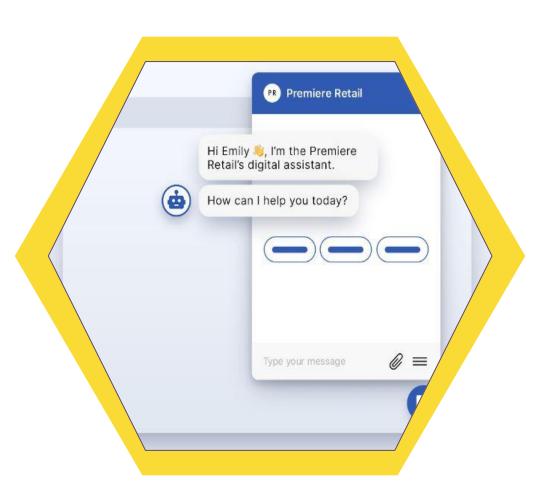
ca is a mock Rogerian psychotherapist.
e original program was described by Joseph Weizerbaum in 1966.
his implementation by Norbert Landsteiner 2005.

ELIZA: Is something troubling you ?
TU: Men are all alike.
TA: What is the connection, do you suppose ?
They're always bugging us about something or other.
Can you think of a specific example ?
Well, my boyfriend made me come here.
s it important to you that your boyfriend made you come hy says I'm depressed much of the time.
sorry to hear that you are depressed.
true. I am unhappy.
u explain what made you unhappy ?
```

Past

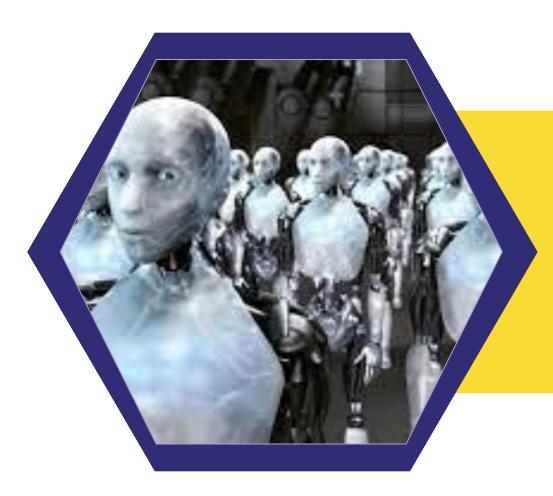
Inspired by the Alan Turning's article,

"Computing Machinery and
Intelligence," humans developed
computer programs to impersonate a
human in real time conversation.



Present

Ever heard of Siri, Alexa, Google Assistant? Or been taken to a chat pop-up to access customer service? These are chatbots. Companies are using chatbots to save time, money and to provide more tailored and personalized experience(s). Ex: Expedia



Future

Solaris? War Games? Terminator? Robo-Cop? 2001: A Space Odyssey? The Matrix? Minority Report? I-Robot? Wall-E? Resident Evil? Tron? Megan?

What is ChatGPT?



how would you explain this to a 5th grader?

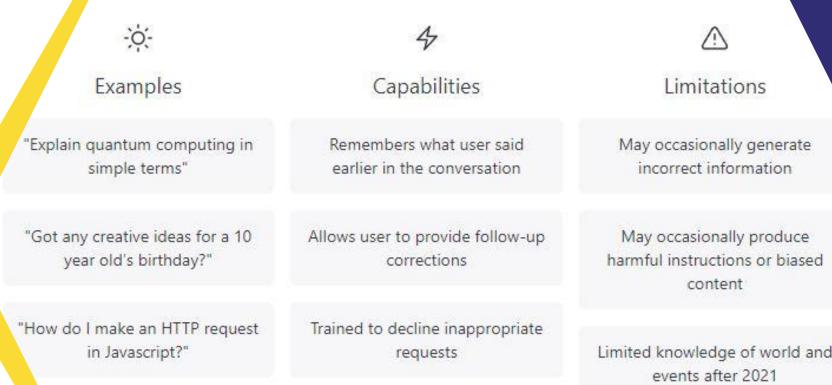


ChatGPT is a computer program that uses artificial intelligence to understand and respond to human language. It's like a robot that can have a conversation with you! It has learned a lot of information by reading many books and articles, so it can answer questions and provide useful information.

The program uses a process called natural language processing, which means it analyzes the words you type or say and tries to understand the meaning behind them. Then, it generates a response that is helpful or interesting based on what it has learned.

ChatGPT is a great tool for people who want to ask questions, get help with a problem, or just have a conversation with a machine that can understand and respond to their input. It's like having a smart friend who knows a lot of things and is always ready to chat!

ChatGPT



lialogue. Our goal is to make Al systems more natural to interact with, and your feedback will he

OpenAI is an AI research and deployment company. Our mission is to ensure that artificial general intelligence benefits all of humanity.



ChatGPT is Pre-trained



What went into your pre-training data set. please explain this at a 5th grade level?



To make ChatGPT really smart and able to understand and respond to human language, it was trained on a lot of data from different sources. This is called the pre-training data set.

The pre-training data set includes a lot of text from books, websites, and other sources. It's like a giant library that ChatGPT can use to learn about all sorts of things, like science, history, and even jokes.

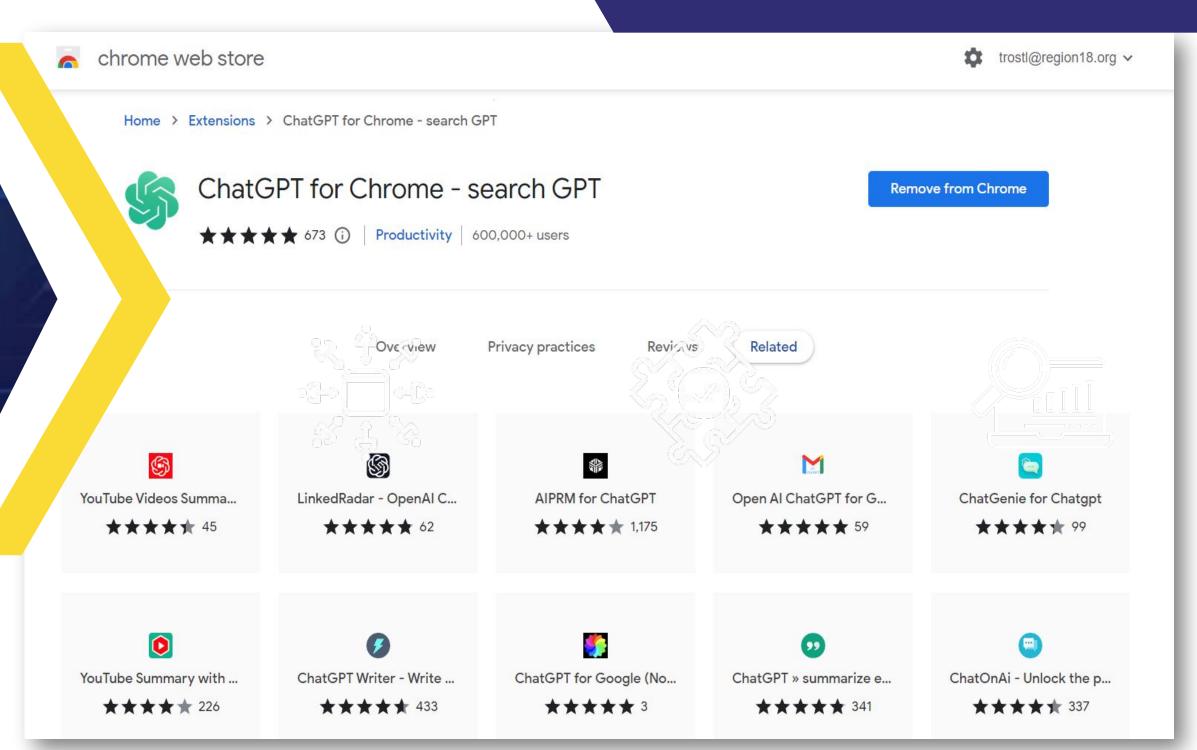
The idea behind the pre-training data set is that by reading all of this text, ChatGPT can learn how to understand language and how to generate responses that are helpful and interesting. It's kind of like how you learn new things by reading books and articles, but on a much larger scale.

Once ChatGPT has been pre-trained on this data, it can start to have conversations with people and learn even more from those interactions. So, the pre-training data set is just the starting point for ChatGPT's knowle

G Regenerate response

ChatGPT

Apps & Extensions



Benefits to Instruction



Lesson Planning

Ask ChatGPT for lesson ideas about a topic or concept. Ask it to create a rubric or to change the level of a pre-existing lesson.



Student Engagement

Create Concept Maps.
Gamify lessons.
Adjust lessons to re-teach
concepts. Create virtual
lessons/labs esp. to assist with
homebound or absent students.



Differentiate and Translate Text

Have ChatGPT differentiate, translate or modify readings and more.



Provide Feedback to Students

Provide students with detailed feedback using the criteria or rubric you already have in place.

Lesson Planning

ChatGPT is not intended to replace teachers or the traditional in-person classroom experience. Instead it can enhance the classroom experience by providing teachers with additional resources to create engaging lessons for their students.



Brainstorming



Restructuring & Re-teaching



Creative Approaches



Real World Applications



Rewrite this lesson plan in the I do, you do, we do format.

I do (25 minutes):

- Bell Ringer: Write the following prompt on the board: "What is a ratio? Provide an
 example." Have students write their response on a piece of paper or in their math
 notebook for 2-3 minutes. Then, have a few students share their responses with the class.
- Introduction: Introduce the concept of ratios by defining what a ratio is and providing an
 example. Write the definition on the board, "A ratio is a comparison of two or more
 quantities that have the same units." Then, write an example ratio, "2:3" and ask the class
 to identify what the ratio is comparing.
- Simplifying Ratios: Explain to students that ratios can be simplified by dividing both numbers by their greatest common factor (GCF). Demonstrate how to simplify a ratio by using the example "12:16".
- 4. Solving Ratio Problems: Explain to students that ratios can be used to solve problems.
 Demonstrate how to solve a ratio problem using the example "If there are 10 boys and 15 girls in a classroom, what is the ratio of boys to girls?"

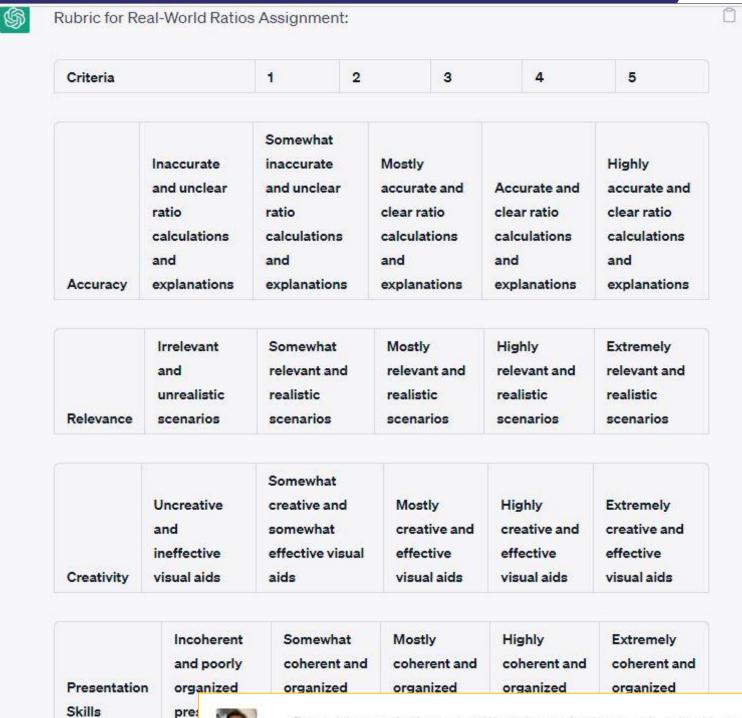
You do (25 minutes):

- Simplifying Ratios: Distribute ratio worksheets and have students work on simplifying ratios independently or with a partner.
- Solving Ratio Problems: Distribute ratio worksheets and have students work on solving ratio problems independently or with a partner.

We do (25 minutes):

- Guided Practice: Divide students into pairs or small groups. Distribute ratio worksheets
 and have students work on the guided practice section together. As they work, circulate
 the room and provide assistance and feedback as needed.
- 2. Review and Exit Ticket: Review key concepts and take time to answer any questions. On a slip of paper, have students writ Regenerate response lowing question: "What is one

Lesson Planning





The students in this class are struggling with the concepts of ratios, what is another way (with visuals) to re-teach the concept of ratios?



One way to re-teach the concept of ratios to struggling students is through the use of visual aids. Here is a simple activity that can help students understand ratios using colored beads:

- Provide each student with a bag of colored beads. The beads should be of different colors but the same size and shape.
- Ask the students to sort the beads by color and count the number of beads in each color group.
- Have the students create a ratio using the two largest color groups. For example, if the student has 20 red beads and 30 blue beads, the ratio could be written as 20:30 or simplified to 2:3.
- Ask the students to represent the ratio visually using the beads. For example, the student could use 2 red beads and 3 blue beads to represent the ratio 2:3.
- Have the students create different ratios using the other color groups and represent them visually with the beads.

Another way to use visuals is through the use of diagrams or pictures. For example, you can draw a picture of a pizza and ask the students to determine the ratio of the number of slices with pepperoni to the total number of slices. This can help students visualize the concept of

ed in everyday situations.

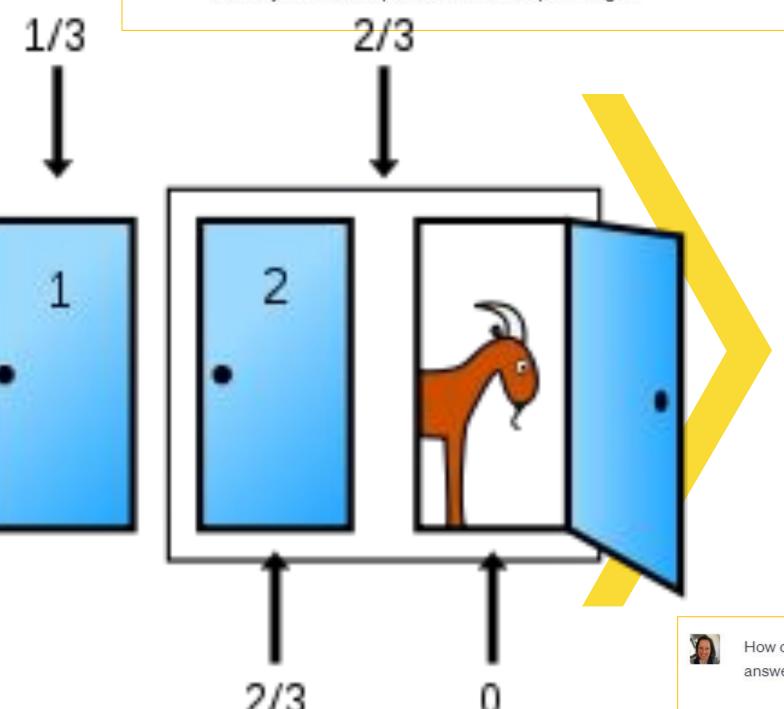


Create a rubric on a likert scale to evaluate the students mastery of the criteria given within this activity.



Write a lesson for an 85 minute AP Psychology Course about the importance of both emipricism and intuition within the study of human behavior. Provide a hook that the teacher can execute to get the students thinking about this concept and provide a partnered activity that exemplifies the concepts taught.

Student Engagement





What is another way i could make this lesson engaging?



One way to make this lesson more engaging is to incorporate some interactive activities that allow students to apply the concepts they are learning. Here are a few ideas:

- 1. Case Studies: Provide students with case studies that highlight the importance of both empiricism and intuition in the study of human behavior. Divide the class into small groups and have each group analyze a case study, discussing which research methods might be most appropriate for studying the behavior in question, as well as what role intuition might play in generating hypotheses or interpreting results. After a set amount of time, have each group present their findings to the class.
- 2. Role-playing: Divide the class into small groups and assign each group a different scenario that involves making decisions based on a combination of empirical data and intuition. For example, one group might be asked to role-play as a psychologist who needs to make a diagnosis based on clinical observations and test results, while another group might be asked to role-play as a journalist who needs to report on a scientific study in a way that accurately convoye the results without oversimplifying or sensationalizing

How could I evaluate students knowledge other than a traditional multiple choice or short , have them present their scenario to the answer quiz?



Provide an example of this: Concept Map: Ask students to create a concept map that illustrates the relationships between the concepts covered in the lesson, including how empiricism and intuition are related to one another and how they are used in the study of human behavior.

o. Debates. Divide the class into two teams and assign each team a position to argue in a and intuition in the study of human rch methods are the most important, portant. Allow each team time to them present their case to the

class.

Regenerate response

Differentiate & Translate



Translate this assignment for a student with a 3rd grade reading level: Act 1, Scene 1
Summary: Theseus and Hippolyta discuss their wedding which is to take place in four days.
Theseus sends Philostrate to round up entertainers to while away the time. Egeus brings his daughter Hermia and her two suitors, Lysander and Demetrius, to Theseus to settle an

ChatGPT is not intended to replace teachers or the traditional in-person classroom experience. Instead it can enhance the classroom experience by providing teachers with additional resources.



Differentiated Readings



Differentiated Assignments



Translate for our ESL/ELL



Personalized Instruction



In this story, Theseus and Hippolyta are getting ready to get married. They talk about their wedding and Theseus sends someone to get entertainers for the party. A man named Egeus brings his daughter Hermia and her two boyfriends, Lysander and Demetrius, to Theseus to help them decide who Hermia should marry. Hermia wants to marry Lysander, but Egeus wants her to marry Demetrius. Theseus says Hermia must marry Demetrius, become a nun, or be killed if she disobeys. Hermia and Lysander plan to run away and get married in secret. Hermia's friend, Helena, loves Demetrius but decides to tell him about Hermia's plan so she can be with him.

Do you think Hippolyta and Theseus agree on how fast the four days until their wedding will go by? How do you think Hippolyta feels about the wedding? How do you think Theseus feels about the wedding?

Why did Egeus bring Hermia and her boyfriends to Theseus? What does he want Theseus to do?

In this story, what do people think women and daughters should do in Athenian society? Can you find proof in the text? What page is it on?

What do Hermia and Lysander decide to do when they can't marry each other?

Why does Helena tell Demetrius about Hermia and Lysander's plans even though she loves Demetrius and is Hermia's friend?



What actionable feedback should this student be given in order to improve their response



Here are some actionable feedback that could be given to the student to improve their response:

- Provide more specific examples: The student's arguments could be strengthened by providing more specific examples to support their claims. For example, they could provide specific instances where using the internet was more reliable than using a book for research.
- Use more advanced vocabulary: While the language used by the student is appropriate
 for their age, they could be encouraged to expand their vocabulary to include more
 advanced words and phrases. This would help them to express their ideas more
 effectively and to sound more mature in their writing.
- 3. Work on sentence structure: The student could work on varying their sentence structure to make their writing more interesting and engaging. For example, they could use complex sentences and compound sentences to convey more complex ideas.
- Consider counterarguments: Encourage the student to consider opposing viewpoints and address them in their response. This would demonstrate critical thinking skills and make their arguments more convincing.
- Edit for grammar and punctuation: The student could be encouraged to carefully review their writing for grammar and punctuation errors before submitting it. This would help them to communicate their ideas more clearly and effectively.

Feedback

This is another resource that teachers can access to provide actionable and personalized feedback. This is not the first tool to assist with this.





Personalized and Actionable Recommendations



Foster Student Reflection



Encourage Student Creativity



reasons.

Evaluate this text in terms of complexity, quality of argument, and quality of writing. The children in my class have been talking about the proposal that some of you have made which is whether or not our school should participate in the national "Shut Down Your Screen" week. I don't think

Feedback

that if we did that, it would have a positive effect on the children in our school. There are a few reasons that we might want to participate but I

weighed it out and I don't think that we sh

One reason that I don't think that our school the national "Shut Down Your Screen" were computers, we can get assignments done that we can move on to other things. For extask to type, if you write it by hand, it will to we just decided to type it. If we are given a research on, we can usually get a lot more internet then even from a book sometimes on to our next subject much faster because finished.

Another reason that I don't think we should for a week is because the Internet is the mainformation. In the article "Is Google Making internet has the world's best images, writing will have better, more honest and reliable in the should be internet has the world best images."

The internet lets us expand our range of the different way from possibly someone else information lets us think better and faster. is not helping us learn and not making us the case. I'm only eleven years old and I have internet like how solar power works and he so that is obviously a myth. Google and the



In terms of complexity, the text is written in a simple and straightforward manner, with short sentences and clear ideas. The vocabulary used is appropriate for an 11-year-old, which is the presumed age of the writer. The arguments presented are also straightforward and do not require advanced reasoning or critical thinking skills.

In terms of the quality of the argument, the writer presents three reasons why they believe the school should not participate in the national "Shut Down Your Screen" week. However, the writer's arguments are not very convincing, and some of their claims are oversimplified or not entirely accurate. For example, the writer suggests that the internet is always a more reliable source of information than a book, which is not necessarily true.

In terms of the quality of writing, the text is well-structured and easy to follow, with clear transitions between paragraphs. However, the writing lacks depth and nuance, and the author does not provide any evidence or examples to support their claims. Overall, the text is a good effort for an 11-year-old, but it lacks the complexity, depth, and critical thinking skills that would be expected of a more advanced writer.

access to information on just about anything.





Benefits to Instruction



Lesson Planning

Ask ChatGPT for lesson ideas about a topic or concept. Ask it to create a rubric or to change the level of a pre-existing lesson.



Student Engagement

Create Concept Maps.
Gamify lessons.
Adjust lessons to re-teach
concepts. Create virtual
lessons/labs esp. to assist with
homebound or absent students.



Differentiate and Translate Text

Have ChatGPT differentiate, translate or modify readings and more.



Provide Feedback to Students

Provide students with detailed feedback using the criteria or rubric you already have in place.

Imperfections:

- Draws on data set which closed in 2021
- The bot "may make up facts" as it writes sentences.
 (Mira Murati, OpenAl Chief Technology Operator)
- Can misunderstand nuances of human conversation or "hallucinate"
- Room for mis-information, false information, & biased information as well as discrimination
- Security and privacy concerns

For example, ChatGPT might misunderstand a joke or a sarcastic comment because it doesn't have the same sense of humor or context as a human would. It might also have trouble understanding the tone of a conversation, like when someone is angry or upset.

Another way ChatGPT might misunderstand is by taking things too literally. It doesn't always understand idioms or figures of speech, which can lead to confusion. For example, if someone says "it's raining cats and dogs," ChatGPT might think that there are actually cats and dogs falling from the sky.

Finally, ChatGPT might also misunderstand because it doesn't have emotions like humans do. It can't pick up on subtle cues like body language or facial expressions, which can provide important context for a conversation.



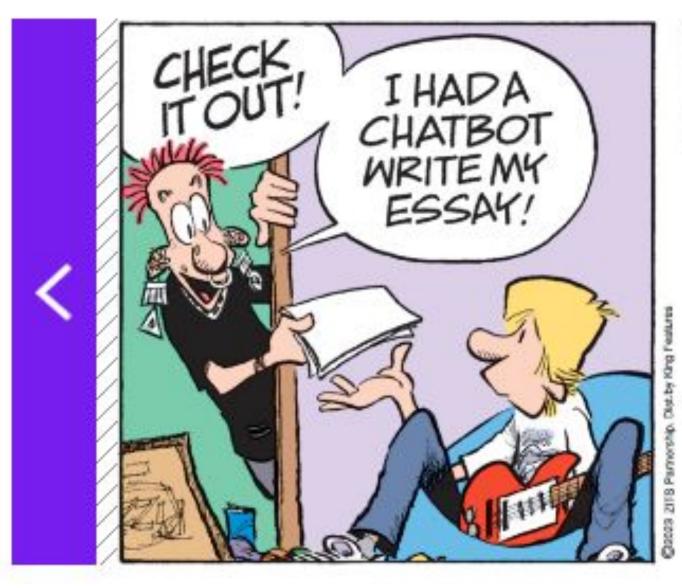


Will thinking cease?

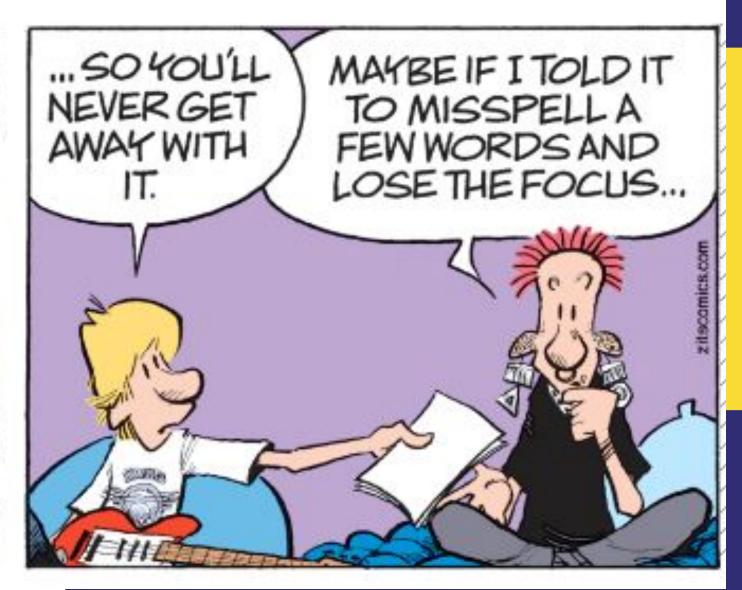
MONDAY, APRIL 17, 2023











37% turnitin

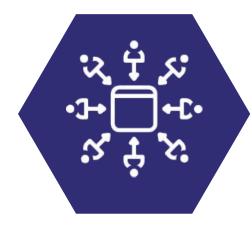
Mitigating Issues

Professional development to craft assignments and assessments that maintain academic integrity as well as updating our Academic Integrity policies will be needed.



Use your intuition

Does something seem awry? Is the same word repeated often? Is the students work different from other writing samples? Use your gut.



Turnitin

Turn on Turnitin when students are submitting assignments in Canvas. Students can use DraftCoach to check grammar and plagiarism.



Ask ChatGPT

Copy the text that you are concerned about.
Access ChatGPT and type: Did you or ChatGPT generate this?: and paste the content.

Our Chances



0%

chance of successfully
blocking generative AI in
schools or otherwise
stopping the
development of AI
technology

 $-\Box \times$

>0%

chance of successfully changing educational systems to engage quality instruction that prepares students for success in an Al future





Next Steps

How can we, administrators, teachers, LMSs, instructional coaches, information and instructional technology specialist do to adapt to the advances of ChatGPT and AI?

Supportive Culture & Collaboration



Professional Development



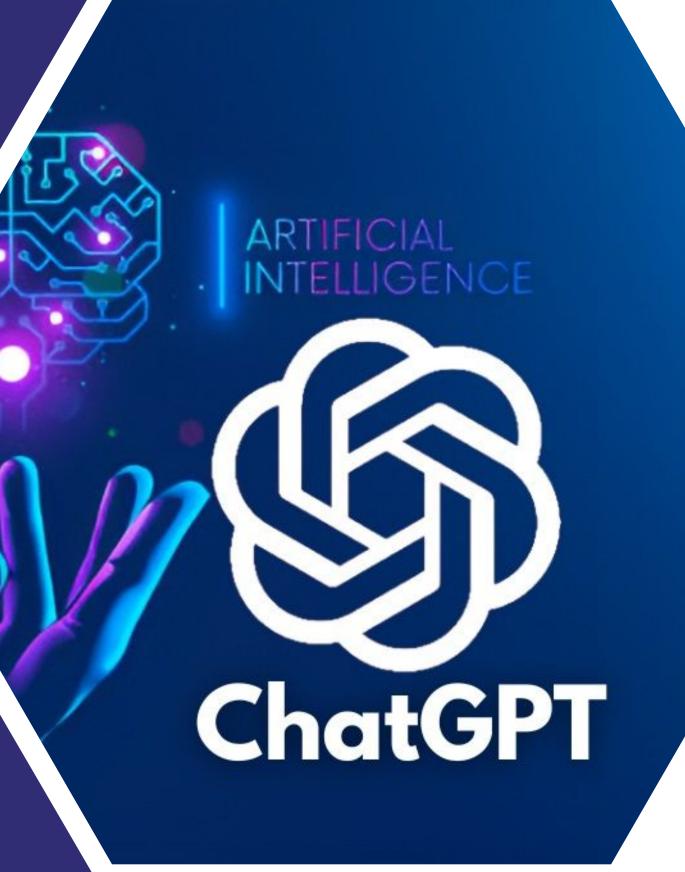
Policies & Guidelines



Funding (training, technologies and maintenance)







THANKYOU

The technology itself is not transformative. It is the school, the pedagogy, that is transformative.

—Tanya Byron





Credits

- ChatGPT: ChatGPT dialogue from various dates
- Canva: Navy and Yellow Modern Professional Market Solution Presentation Slide Template
- Denise Dalton: (VRHS LMS) presentation
 "ChatGPT helped write this: March 8th 2023"
- Washington Post: Zits Cartoon strip 4/19/23
- OpenAl.com: Mission, user parameters, and such
- TurnitIn: Resources Packs, blog posts, and news releases
- Jessica Lyons: Webinar "How Educators can use ChatGPT"