

Beyond Gen Ai: What next?

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Introduction compliments of Hedra



Where have you been? AI is here!

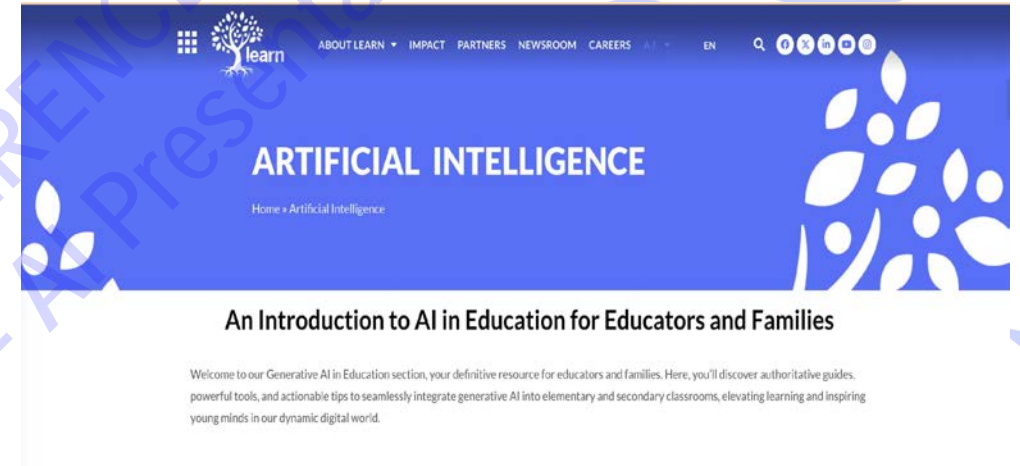
- According to the Harvard Business Review over 40% of all work in the U.S. is done by or uses Generative AI.
- The changes are expected to have the largest impact on the legal, banking, insurance, and capital-market sectors—followed by retail, travel, health, and energy.
- Business Imperative: Change or Perish



Website: AI in Education

<https://learnquebec.ca/ai/>

- Overview of AI use
- AI literacy for educators
- AI literacy for students/parents
- AI use and ethics – *Code of Ethics for the Use of AI*
- Curated resources
- Frequently Asked Questions



Time to meet Walter

- Zoom Zoom Zoom

- <https://learnquebec.zoom.us/j/86537429069?pwd=IRa9zecSDyJrBji4H0Qenc0ov7oibN.1>



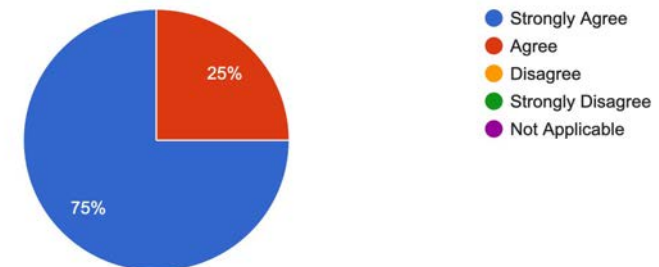
AI Chatbot Agent: Feedback from Tutors

- Strong agreement the AI chatbot was easy to access, navigate, and use
- AI Chatbot Answers:
 - Were clear, accurate, and did not contain information outside of the history content it was trained on
 - Were helpful, easy to understand, and easy to clarify with additional prompting
 - Were rigorous, thorough, and directly aligned with the curriculum
- Strong agreement the AI chatbot would be useful as a tutoring aid, study aid, and teaching aid

The AI-assisted chatbot's responses were rigorous, thorough, and directly aligned with the curriculum.
4 responses



The AI-assisted chatbot would be useful as a tutoring aid, study aid, and teaching aid.
4 responses



AI Chatbot Agent: What Tutors Said

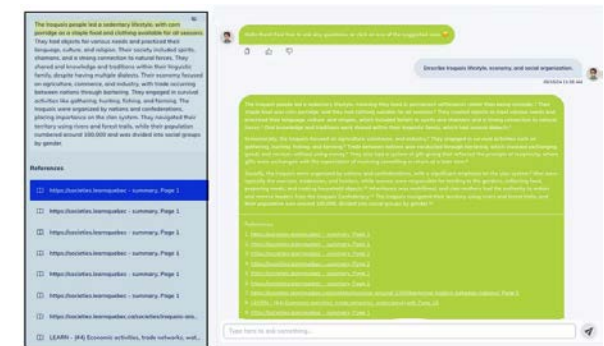
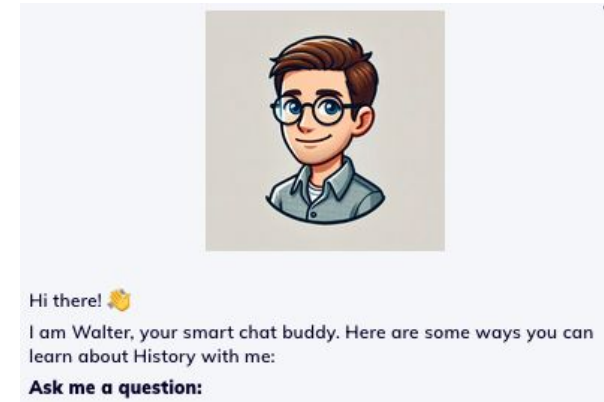
- *“After asking many prompts, the responses were very precise and well presented... students would benefit from the replies because they aren't confusing”.*
- *“Responses broke down prompts, allowing for easy understanding... students in sec 3-4 would appreciate this”.*
- *“The responses were to the point. I really like this :)simple”.*
- *“I see myself using this during LEARN summer school re: history”.*
- *“It fills in the gaps in knowledge that may exist after teaching and tutoring has been done... it is a good study aid”.*



AI Chatbot Agent: “Walter”

How is Walter different from ChatGPT?

- Walter is purpose-built for education, ChatGPT is intended for general use & trained on internet-based content, good or bad
- Walter provides contextualized AI tutoring
- All information provided by Walter is curated by the teacher
- Walter shows students the source of answers



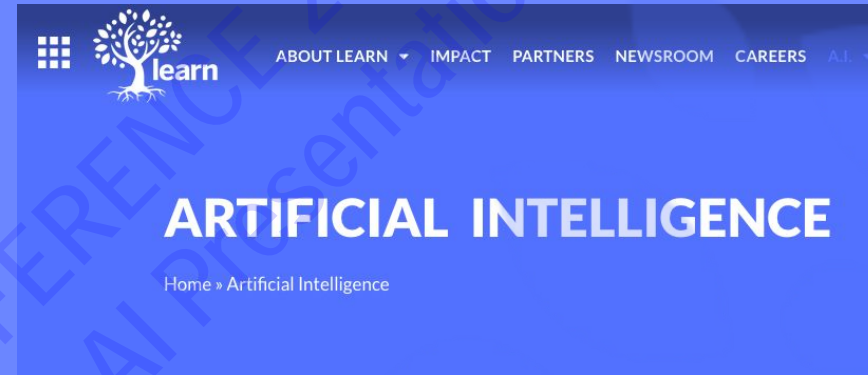
AI Project: Next Steps

Website

1. Update pages and resources
2. Consider expanding topics

AI Chatbot

1. Pilot use to end of term
2. Student feedback in January
3. Explore additional subjects
4. Formal review and evaluation
5. Expansion of AI Chatbot use



What many teachers think about Gen AI

- **"Students were already struggling to think critically after COVID shutdowns. It's a trauma response. Now, however, students who would have copied Wikipedia are using ChatGPT to generate written responses."**

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Another Response

- **"I've been an English teacher for 30 years now. Here's the problem I see with ChatGPT and AI: It's eliminating people's ability to think. Critical thinking skills are at an all-time low, and though it started with the push for standardized testing, it's much worse with these tools. Students don't seem to understand that learning is about the journey, not the destination (the grade). They have AI write their papers for them, and they haven't actually learned anything at all."**

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More

- **"It. is. AWFUL. I teach high school, and it has become increasingly clear that nothing these kids submit is original; their work is either from AI, cheating, or both. These children do not have an original thought in their heads. I have literally watched kids in real time (through monitoring software) email their friends their AI-generated papers and ask them to edit them because it's coming up as 50% AI on Turnitin, and then multiple friends work on it and edit it until it reads as more 'original.'"**

More

- "I had this one student who was quiet and didn't have many friends. I then found out that he talks to some sort of AI chat tool like it's his friend. I sat down and had a talk with him and asked him, 'Why do you talk to the computer instead of real people?' His response was, 'Because unlike real kids, AI knows stuff.' I felt terrible for a couple of minutes, and then I realized he said, 'unlike real kids.' He called the chat tool a kid."
- Ask Annie

More

- **"I'm a high school English teacher, and we're struggling to find our way. Our students still need to learn critical thinking skills, and AI offers them quick-response yet vapid answers. When students use it, it completely undermines the work of the students who don't, and as a result, we have to go backward and get them to hand-write everything in timed conditions. This isn't ideal as it then doesn't help those who find that so hard."**

More

- **"It makes grading papers take twice as long because you have to take the time to search all of the likely locations on the internet to make sure students aren't cheating. Beyond that, it's not fair to the students who actually try and put in the work. It's sad for them and sad for the kids who are cheating because, at the end of the day, they are simply stunting their own development."**

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More but different

- **"My district uses a program called MagicSchool. At my old job, I was spending three to five hours a week lesson planning, and more if I had to look for additional resources to complement our curriculum. Now, in half an hour, I can create grade-level content with a rigorous depth of knowledge that will serve for a week's worth of lessons, in addition to tests and review materials. I also struggle with how to word sensitive emails to parents, and the program will take what I want to say and craft a message that won't piss off anyone. That used to occupy a solid 30 minutes."**

Fireworks and Exceptions

- Ottawa Catholic School Board
- Vancouver School Board
- Fireworks

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What's the Problem? You tell me.

- MEQ hiring promotional video
- <https://www.youtube.com/watch?v=MSgJr0t1Nhc>

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When I started teaching....1972



Doing it the wrong way

- Research has consistently shown that lecturing in the entire class period, for example, is a rather ineffective way of teaching because our working memory and concentration span are limited; usually after listening for 10 to 15 minutes to a lecture, students' minds start to drift away (e.g., Bligh 2000 ; Middendorf & Kalish 1996).

Meanwhile...

- Quebec has the dubious distinction of having the highest dropout rate in Canada with boys more likely to drop out than girls.
- It showed that overall, 64 percent of Quebec public school students finish on time.
- There is also a significant difference among English school boards and French school boards. More than 76 percent of students at English school boards graduate within five years.
- About 85 percent of students in Ontario, Nova Scotia, and New Brunswick finish high school on time.

Meanwhile...literacy

- Data for **Québec** confirm that challenges remains, since one person in five still finds it very difficult to understand and use written text. This represents more than one million **Québec** adults between the ages of 16 and 65. **Québec** ranks tenth on this issue among Canadian provinces and territories

Meanwhile

- In 2003, 47 per cent of Quebecers between the ages of 16 and 65 were considered functionally illiterate. A recent [study](#) indicates that figure rose to 53 per cent in 2013. The Canadian average is 49 per cent. Only 11 per cent of the population of Quebec is considered to have superior competencies, capable of analysis, critical thinking and processing varied sources of information.

In conclusion

- These disparities suggest an educational policy failure with real, observable consequences. In a world that is becoming increasingly complex, information processing skills — literacy, numeracy and problem solving — grow more important by the day. A society that is better educated, informed and capable of critical thinking is a major factor in a well-functioning democracy. People with lower literacy skills are at greater risk of lower earnings and higher rates of unemployment, and experiencing health problems and accidents at work

Facts...not opinion

- Don't be seduced by pretty and shiny things
- Don't be assuaged by fireworks
- Have the courage to ask the tough questions and to expect answers grounded in research and evidence. And anecdotes are not evidence.
- They're eating the dogs. They're eating the cats.
- Talk to your children:
<https://www.popsugar.com/parenting/talk-kids-ai-advice-49401963>
- **Talk to your school principal and tell them what you want for your children**

Just saying...

- **Insanity is “Doing the same thing over and over again and expecting a different result”.**

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Questions--Comments

- Don't be shy!
- There are no bad questions... ~~(yes there are bad questions)~~

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Thank you!



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