

Prompt Crafting using Artificial Intelligence

Description

Prompt crafting is an essential skill when using artificial intelligence tools like ChatGPT, Gemini, Canva, or any big generative AI tool. AI aligns with the Leveraging Digital element of the Deep Learning Framework. Looking to learn how to create more effective prompts to help you with your A.I. usage? Then this is the badge for you!

Minds-on

Artificial Intelligence tools have the capacity to really help educators, but sometimes it is difficult to write a good prompt that will give the most effective and useful output in A.I. that you're looking for. Read over this OCSB AI Prompting Framework:

OCSB Artificial Intelligence Prompting Framework



OBJECTIVE

Clearly state the desired outcome of your interaction. What are you trying to achieve? Examples:

- Create a lesson plan for [topic]
- Brainstorm ideas for [topic]
- Design a single-point rubric for [assignment overview]
- Draft a newsletter about [topics/events]



CONTEXT

Provide relevant background information to help the AI understand your request. Examples:

- Grade Level/Subject/Curriculum Expectations/Duration
- Materials/Tools
- Your Role/Audience
- Relevant Pedagogy (e.g. Deep Learning)



STRUCTURE

Define the desired format of the response. Be specific. Examples:

- Organize the information in a table with the following column titles
- Create a list of options using bullet points
- Provide student-friendly examples throughout



BE ITERATIVE

Refine and improve your results by continuously building upon and adjusting your prompts based on the responses. Examples:

- Focus on [topic/theme]
- Make these questions more open-ended
- Differentiate this activity for multilingual learners

SAMPLE PROMPT

Brainstorm potential inquiry questions for a unit about space.

Align the inquiry questions with the Earth and Space Strand of the grade 6 Ontario Curriculum. Ensure the questions are student-friendly and open-ended.

Organize the inquiry questions in a table with the following column titles: Inquiry Questions, Overall Curriculum Expectations, Specific Curriculum Expectations.

Iteration 1: Create a list of vocabulary terms and corresponding student-friendly definitions for these inquiry questions.

Iteration 2: Which digital tools/learning partnerships can be leveraged to support this learning experience?

Remember **the 80/20 rule** when it comes to what you end up creating. Your professionalism as an educator requires that you check over the output from AI (the 20%) for accuracy, as well as adding your own tweaks to improve and personalize the learning experience for your students. Be iterative, as the framework suggests, until the output is where you'd like it to be. Sometimes you need to add additional or more precise information to get what you want. Please remember to be transparent when you're using A.I. with your students and their families.

Action

After you've reviewed our helpful OCSB guide to prompt crafting, it's now time to use Gemini, Brisk or SchoolAI, our OCSB supported A.I. tools to help you with your work as an educator. First let's do some practicing using the Prompting Framework.

<p><u>Practice Prompting (try these in Gemini):</u></p> <ul style="list-style-type: none">• Plan a trip for a week to a destination of your choice including an itinerary• Plan a lesson or a test for one of your classes. Ask it to use Ontario curriculum expectations.• Ask it to be your thought partner on an issue that you're tackling as a teacher. Some ideas could be plagiarism, bullying, classroom management, engagement, or setting up routines.• Ask it to modify an assignment for Multilingual Learners (MLL).	<p>Now that you've practiced, choose one of these tasks to complete:</p> <ul style="list-style-type: none">• Plan a class field trip to a place in or around Ottawa. Remember to include transportation, OT release costs, admission prices, and activities that your students would do when they are on site.• Plan a short unit for one of your classes. Ask AI to give you lesson plans, rubrics, etc.• Plan a rich summative task for a unit that you already teach with your students. Ask for a rubric to score the assignment, tailoring it to your needs.
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Consolidation

Reflect individually on the impact on your teaching that these tools will provide. What challenges do they create, if any? How can they help you or your students learn or work more effectively? Check out these suggestions from Zain Khan of The AI Academy:

HOW TO LEARN 10X FASTER WITH AI

1 Simplified Breakdown



Description:

Scaffolding is an educational approach where complex ideas are broken down to make learning manageable, proven to improve comprehension and retention. Prompt Template:

Prompt Template:

Prompt: "Explain [insert concept or topic] in simple, easy-to-follow steps as if I'm completely new to it. Break it down into foundational elements and build up from there."

2 Analogies



Description:

Analogical reasoning is a powerful way to learn because it connects new information to what we already know, making abstract concepts more concrete. Prompt Template:

Prompt Template:

Prompt: "Describe [insert concept or topic] using familiar real-life analogies to help make it relatable and easier to understand."

3 Motivation Theory



Description:

Self-Determination Theory suggests that autonomy, competence, and relatedness enhance motivation. Asking for strategies that tap into these elements can keep you inspired. Prompt Template:

Prompt Template:

Prompt: "I'm struggling with motivation in studying [insert topic]. Give me practical strategies to feel more in control, capable, and connected to my learning."

4 Role-Playing



Description:

Situational learning theory shows that applying knowledge in realistic contexts enhances retention and skill acquisition. Prompt Template:

Prompt Template:

Prompt: "Let's simulate a scenario where I'm [insert role] and you're [insert another role]. Guide me through a realistic exercise in [insert skill or scenario] so I can learn through practice."

5 Interactive Quiz



Description:

Retrieval practice, or self-testing, is one of the most effective ways to reinforce learning and identify knowledge gaps. Prompt Template:

Prompt Template:

Prompt: "Create a 10-question quiz on [insert topic] with multiple question types and explanations. This will help reinforce what I know and show me where I need improvement."

6 Mind Mapping



Description:

Dual coding theory suggests that combining verbal and visual information improves learning. Mind maps visually represent information, making it easier to understand complex topics. Prompt Template:

Prompt Template:

Prompt: "Make a mind map of [insert topic] with main branches and subtopics to help me understand the big picture and details at a glance."

7 Critical Thinking



Description:

Exposure to diverse perspectives deepens understanding and fosters critical thinking, enhancing both memory and cognitive flexibility. Prompt Template:

Prompt Template:

Prompt: "Simulate a discussion on [insert topic] between experts in different fields, such as an economist, scientist, and philosopher, to give me a well-rounded view."

8 Mnemonics



Description:

Mnemonics and chunking are proven to improve memory by organizing information into memorable units or associations. Prompt Template:

Prompt Template:

Prompt: "Create memory aids or mnemonics for [insert topic or concept] to help me retain the key points more easily."

9 Feedback



Description:

Metacognition, or thinking about one's own learning, is enhanced through feedback, enabling learners to evaluate and improve their understanding. Prompt Template:

Prompt Template:

Prompt: "Here's my work on [insert project or topic]. Give me constructive feedback to improve clarity, structure, and comprehension."

10 Feynman Technique



Description:

The Feynman Technique, which involves explaining what you've learned in simple terms, reinforces knowledge and reveals gaps in understanding. Prompt Template:

Prompt Template:

Prompt: "Test my understanding of [insert topic] by having me explain it back to you in simple terms. Give me feedback on what I missed or could explain better."

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