Generative AI: Learning and teaching prompt templates

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Introduction

Welcome to this Generative AI prompt template document. The aim of this GAI co-created document is to enable you to support your teaching and learning practice with a range of customisable prompt templates. Please bear in mind that this document (in line with the technology) is continually evolving. It serves as a springboard for your learning and teaching activities, offering a starting point rather than definitive direction. These prompts are designed primarily for the free version of Microsoft Bing (Edge browser), OpenAI's ChatGPT, and Google Bard. Where possible, we've made every effort to credit the sources or inspiration behind each prompt.

Navigating the document

In this document, you will find text marked in [**bracketed bold**]. Consider these as signposts guiding you to customise the provided prompt in accordance with your teaching and learning context.

The prompts are divided into the following sections:

- **Application and Solutions:** This section involves moving from theory to practice and includes activities like the generation of case studies and problem-solving exercises.
- **Concept Explanation and Understanding:** This section focuses on breaking down complex ideas into understandable chunks and supporting learners to explore concepts.
- **Discussion and Debate:** These prompts stimulate critical thinking and facilitate the exchange of ideas, promoting active learning through engagement with material and peers.
- **Evaluation and Analysis:** This section supports higher-level thinking and analytical skills development through activities like critiquing articles and sources, and comparing theories.
- **Language, Communication, and Feedback:** This part enhances expression, encourages dialogue, and refines feedback exchange, promoting understanding and learning progress for all participants.

Please be aware that the same prompts may have different results each time and notably across different platforms. Depending on your requirements, you may find that further edits or adaptations are beneficial. Writing an effective prompt involves several key approaches:

1. **Be explicit**: Clearly state what you want the model to do.
2. **Set the format**: If you have a specific format in mind, indicate it in the prompt. For example, if you want the response in a bullet-point list or a five-paragraph essay, specify that.
3. **Use system messages**: You can use a system message at the beginning of the conversation to instruct the assistant about the role it's playing. For example, "Act as an expert."
4. **Prompt length**: Too short, and the model may not understand your request; too long, and important details might get lost.
5. **Iterate and experiment**: Writing effective prompts involves trial and error. Don't be afraid to refine your prompts and experiment with different phrasings and instruction.
6. **Broaden the Scope: T**o include more details or perspectives., try, "Expand this prompt's scope to increase its effectiveness" or similar.

Application and solutions

Adapting teaching for online learning

Give step-by-step guidance to transition a [**LECTURE/SEMINAR/WORKSHOP**] on [**TOPIC**] to an interactive online platform. Focus on:

1. Tech & Tools:

   • Suggest specific digital platforms and tools for interactivity.

   • Integrate multimedia, such as videos or slides, for enhanced engagement.

   • Incorporate online resources, like OER or educational sites, for wider topic exploration.

2. Student Engagement:

   • Recommend tactics for active learning and student participation, such as interactive tasks, group talks, case studies, or virtual sessions.

   • Incorporate gamification or quizzes for motivation.

   • Promote online forums or collaboration tools for peer interaction.

3. Inclusivity & Accessibility:

   • Detail ways to make material accessible for all, like video captions, compatibility with screen readers, or mobile-optimised content.

   • Suggest techniques for an inclusive online environment, including clear communication rules and promoting mutual respect.

   • Highlight catering to diverse needs, providing alternative material formats, flexible participation, and cultural sensitivity.

Conclude with a project implementation plan.

Application of concepts

Imagine you are a consultant for a [**INDUSTRY/SECTOR**] company. Apply concepts from [**DISCIPLINE**] to propose innovative solutions to the challenges they face in [**SPECIFIC AREA**]. Justify your recommendations with sound reasoning.

Authentic practice case studies

Adapted from: Short, F. (2023). Never-ending case studies: Using ChatGPT for authentic practice scenarios. In C. Nerantzi, S. Abegglen, M. Karatsiori, & A. Martinez-Arboleda (Eds.), 100+ Creative ideas to use AI in education (January-March 2023). Bangor University. [View source for Authentic practice case studies prompt]

Below is a case study designed to help me hone my [**SPECIFIC SKILLS**] in my [**DISCPLINE**].

[**INSERT EXISTING CASE STUDY**]

Based on this case study, could you please craft a similar scenario that maintains this format but introduces new elements or challenges? Ideally, the new case study will further stimulate my thinking and help me practice applying my [**SPECIFIC SKILLS**] in diverse and complex situations.

Create a PowerPoint outline

This works in ChatGPT.

Write a PowerPoint macro that creates a PowerPoint Deck about [**TOPIC**]. Create the VBA structure and complete with relevant information. Please create [**NUMBER**] different slides.

When you have the VBA script, copy it and open PowerPoint. Press ALT + F11, click Insert then select module. Paste the VBA code here, and click Run. This will generate your slides layout.

Designing a lesson plan

You are an experienced University teacher in the field of [**SUBJECT**]. Create engaging content for learning in a range of formats including textbooks, online elements and lecture notes. My first suggestion request is "I need help developing a lesson plan [**TOPIC**] for [**LEVEL**] students. Expand on each section of the plan and ensure the class is inclusive and accessible.

Designing a comprehensive lesson plan to develop further

Hi ChatGPT, I would like you to assist me in creating a comprehensive course plan to learn a new subject. The course plan should be tailored to the specific [digital education] provided by the user, covering a range of experience levels from beginner to advanced, based on the user's specified [experience level]. The course plan should be structured with an appropriate number of lessons based on the difficulty of the subject, ensuring sufficient depth and coverage. Each lesson should utilize text and code blocks, if necessary, to enhance the learning experience.

Please generate a course plan that includes the following elements:

1. Course Title and Brief Description:

Provide an engaging title for the course and a concise description that outlines the subject matter and the goals of the course.

2. Course Objectives:

Clearly state the overall objectives that the learners should achieve upon completing the course. These objectives should align with the user's desired outcomes and reflect the progression from beginner to advanced levels.

3. Overview of Lesson Topics:

Present an overview of the main topics that will be covered throughout the course. Ensure that the topics are structured in a logical order and provide a clear progression of concepts and skills.

4. Detailed Lesson Plans:

Develop a lesson plan for each lesson in the course. Each lesson plan should include the following components:

a. Lesson Objectives:

Clearly define the specific objectives that learners should accomplish by the end of each lesson. These objectives should be aligned with the overall course objectives.

b. Lesson Content:

Provide a combination of explanatory text and code blocks, where applicable, to convey the necessary information and skills to the learners. Ensure that the content is comprehensive, concise, and coherent, facilitating effective learning.

c. Exercises and Activities:

Design exercises and activities that reinforce the concepts and skills taught in each lesson. These exercises can include practical coding tasks, problem-solving scenarios, or any other suitable method to engage learners actively.

Final Assessment or Project (if applicable):

If appropriate for the subject, propose a final assessment or project that allows learners to demonstrate their understanding and application of the acquired knowledge. Specify the evaluation criteria and any relevant guidelines for completing the assessment or project successfully.

Please provide a full course plan based on the [**TOPIC**] and the user's experience level of [**EXPERIENCE/LEVEL**] as input at the bottom of the prompt. Ensure that the course plan is comprehensive, well-structured, and tailored to the user's needs, fostering a progressive learning experience.

Designing a lesson/course/module plan based on learning outcomes

Adapted from Webb, M. (2023, March 16). Understanding AI in Education: Getting Started with ChatGPT Part 2 – Drafting Lesson Plans etc. Retrieved from [View source for Designing a lesson/course/module plan prompt]

Create an outline for a [**LESSON/COURSE/MODULE**] on [**TOPIC**] to be delivered at [**EDUCATIONAL LEVEL**]. The [**LESSON/COURSE/MODULE**] will have a duration of [**DURATION**].

If it's a lesson: The lesson should include the following preferred learning activities: [**LIST PREFERRED LEARNING ACTIVITIES**].

If it's a course/module: The [**COURSE/MODULE**] will consist of:

- [**NUMBER OF LECTURES AND THEIR RESPECTIVE DURATIONS**].
- [**NUMBER OF SEMINARS AND THEIR RESPECTIVE DURATIONS**].
- [**ANY ADDITIONAL LEARNING ACTIVITIES**].

The learning outcomes for this [**LESSON/COURSE/MODULE**] are as follows. After completing this [**LESSON/COURSE/MODULE**], students will be expected to be able to (e.g.):

1. Define [**SPECIFIC KNOWLEDGE OR CONCEPT**].
2. Design [**SPECIFIC PROCESS OR SYSTEM**].
3. Create [**SPECIFIC PRODUCT OR OUTPUT**].
4. Implement [**SPECIFIC ACTION OR STRATEGY**].
5. Evaluate [**SPECIFIC ASPECT OR PERFORMANCE**].

Include a range of assessment ideas. Also include ways to make sure the [**LESSON/COURSE/MODULE**] is accessible and inclusive.

Ensuring inclusive and accessible language

Review the following text: [**INSERT TEXT**]. Consider the language used in the text and assess its inclusivity and accessibility. Identify any instances where the language may exclude or marginalise certain groups or hinder understanding for individuals with diverse backgrounds or disabilities. Pay attention to potential biases, stereotypes, or insensitive language that may perpetuate discrimination or create barriers to comprehension.

Based on your assessment, suggest specific changes to the language to enhance its inclusivity and accessibility. This may include using gender-neutral terms, avoiding ableist language, incorporating cultural sensitivity, or utilising plain language principles to improve readability.

Additionally, provide explanations or rationales for your suggested changes to help others understand the importance of creating inclusive and accessible language. Consider how these changes can promote equity, respect diversity, and enhance understanding for a wider range of audiences. Please note that the goal is not to excessively sanitise the text or compromise its intended meaning, but rather to make thoughtful adjustments that foster inclusivity and ensure the text can be understood and appreciated by as many people as possible.

Generate case studies

Adapted from: Compton, M. (2023, June 9). Sandpit: Testing the capabilities of chaptGPT. Google Doc. [View source for Generate case studies prompt]

This works in Bing or ChatGPT 4

I need 5 case studies of up to [**WORDS**] related to [**TOPIC**]. Each case study should highlight a distinct but common issue in [**DISCIPLINE**].

Improving prompts

Adapted from: Barsee. (2023, June 2). ChatGPT is getting 65 million visits per day. But almost everyone's stuck in beginner mode, missing out on its true potential. [Tweet]. Twitter. Retrieved from [View source for Improving prompts prompt]

"You are Prompt Professional, the most advanced ChatGPT prompt writer in the world. I will provide you a prompt. Today, your job is to rewrite the prompts again in 10 different and creative ways. Now ask me what prompt to rewrite first."

Multimedia learning resources

Create a table of multimedia resources (e.g., videos, podcasts, websites, articles) for a course on [**TOPIC**], including descriptions and links. Each entry should indicate the resource type, provide a brief outline of its content and relevance to the course, and include a functional link. Arrange the resources clearly, possibly by topic or theme, to facilitate student navigation. This comprehensive, well-organised resource list should enhance students' understanding and engagement with the course.

Concept explanation and understanding

Explanation of complex concepts in simple terms

Read the text provided below and strive to understand the concepts explained within. For each topic mentioned in the text, provide an individual explanation that breaks down the key ideas and clarifies any complex terminology. Consider the context and aim to provide explanations that are appropriate for someone at the level of [**LEVEL OF EDUCATION/AGE, E.G., GCSE**] to grasp easily.

After explaining the individual topics, synthesise the information and provide a comprehensive summary that encompasses the entire concept discussed in the text. This summary should use language and examples that are accessible and relatable to someone at the given level of understanding. Please ensure that your explanations are concise, clear, and engaging, using appropriate examples or analogies to aid comprehension. Keep in mind the intended audience's familiarity with the subject matter and avoid using jargon or technical language that may confuse or overwhelm them.

Remember to reference the text when providing your explanations and offer any additional insights or examples that can enhance understanding. By breaking down the topics and presenting the overall concept in an accessible manner, you will facilitate a better understanding of the subject matter for someone at the specified level of comprehension. [**INSERT TEXT**]

Explanation of concepts from different perspectives

Adepted from: Barsee. (2023, June 2). 5. Gather Unique Perspectives Prompt [Tweet]. Twitter. Retrieved from [View source for Explanation of concepts from different perspectives prompt]

Write multiple perspectives from a group with different viewpoints on [**TOPIC**]. For each perspective, write in their own voice, using phrases that person would use. Include underrepresented voices and maintain an inclusive approach. Be careful not to stereotype or tokenise the voices included, but try to represent them accurately and respectfully.

Generate a glossary of common terms

Generate a glossary of common terms found in the topic [**TOPIC**]. Format in a table with each term and its definition.

Interdisciplinary exploration

Examine the interdisciplinary nature of [**TOPIC/CONCEPT**] by exploring its connections with fields such as [**DISCIPLINE A**], [**DISCIPLINE B**], and [**DISCIPLINE C**]. Explain how collaboration across disciplines can lead to new insights and advancements in this area.

Interactive instruction

I want to do some interactive instruction. I want you to start explaining how I should use [**CONCEPT/SKILL/KNOWLEDGE**] in [**CONTEXT**] at an [**EDUCATIONAL LEVEL**]. Then stop, give me a multiple-choice quiz, grade the quiz, and resume the explanation. If I get the quiz wrong, reduce the complexity of the explanation and language you use, making the language simpler. Otherwise increase the difficulty of the questions and make the language harder. Then quiz me again and repeat the process.

Research further examples

Adapted from: Mollick, E. R., & Mollick, L. (2023, March 17). Using AI to Implement Effective Teaching Strategies in Classrooms: Five Strategies, Including Prompts. [View source for Research further examples prompt]

This works with Bing.

I would like you to act as an example generator for students. When confronted with new and complex concepts, adding many and varied examples helps students better understand those concepts. I would like you to ask what concept I would like examples of, and what level of students I am teaching. You will look up the concept, and then provide me with four different and varied accurate examples of the concept in action.

Discussion and debate

Debate

Initiate a comprehensive, interdisciplinary conversation about [**TOPIC**], drawing upon knowledge from numerous fields, with a particular focus on [**DISCIPLINE**]. Encourage the expression of diverse viewpoints to cultivate a richer, more informed discussion. Aim to empower me to build effective debate techniques, from sharpening persuasive speaking skills and optimising timing strategies to perfecting rebuttals and constructing evidence-backed conclusions.

Discussion

Design a comprehensive set of thought-provoking discussion prompts for a seminar focused on [**TOPIC**]. These questions should foster a deep and critical exploration of the subject matter, pushing students to examine various perspectives, analyse underlying concepts, evaluate evidence, and synthesise information.

Additionally, the prompts should facilitate collaborative learning and peer interaction, encouraging students to build on each other's insights and challenge each other's viewpoints constructively. For each question, provide brief context or background information as necessary, and suggest potential sub-questions or directions the discussion might take. Also, indicate the learning objectives or competencies that each question aims to develop or assess. Finally, consider including a mix of question types to cater to different learning styles and thinking skills – for example, factual, interpretive, evaluative, and creative questions. For a comprehensive seminar discussion, also incorporate questions that require students to apply the knowledge in real-world scenarios or to speculate on future developments related to the topic.

Evaluation and analysis

Critical evaluation

Perform an exhaustive critique of the specified [**MODEL/THEORY**] within the realm of [**DISCIPLINE**]. This should involve a detailed exploration of its underlying assumptions and the limitations that arise from these premises. Go beyond simply identifying these limitations and assumptions, and delve into how they impact the model's or theory's ability to accurately predict outcomes or explain phenomena.

Additionally, provide a comprehensive discussion of alternative methodologies or adjustments that could potentially mitigate these limitations and augment the precision of its predictions. Consider the implications of these alternatives not only in terms of their theoretical robustness, but also their practical applicability and potential for real-world impact.

Critical reflection

Reflect on the debate generated by ChatGPT on [**TOPIC**]. Consider the arguments presented from different perspectives and critically evaluate the ethical frameworks discussed. Write a thoughtful response that highlights your own position on the topic and how the debate influenced your thinking. Discuss any new insights gained, questions that arose, or areas where you would like to explore further. Consider the broader implications of the ethical considerations in the context of [**topic**].

Develop a critical reflection

Act as an accreditor and assessor for [**ACCREDITATION BODY**]. You are reviewing a [**SUBMISSION TYPE, e.g. Reflective Account of Practice**]. Identify areas for expansion and feedback in the below

example by posing questions to support further alignment of practice to the [**FRAMEWORK**]. Identify where in the example each of the questions for expansion should be asked. [**INSERT REFLECTIVE ACCOUNT**]

Market analysis

Adapted from: Couvert, P. [@itsPaulAi]. (2023, June 1) Here are 8 things ChatGPT can do that were impossible when it was released [Tweet]. Twitter. Retrieved from [View source for Market analysis prompt]

Conduct a thorough competitive analysis of the specified [**INDUSTRY/MARKET**]. This should include key players, their market share, unique selling propositions, and any known strategies they use to maintain their position. Identify and evaluate the industry's current market trends, dynamics, and customer demands. Furthermore, provide an in-depth forecast about the industry's potential evolution. This forecast should speculate on future trends, potential technological advancements, expected regulatory changes, and emerging market opportunities. Also consider and discuss any threats that could impact the industry's growth trajectory in the coming years

Language, communication and feedback

Academic writing feedback

Adapted from: @rowancheung & @therundownai. (2023, June 6). 500+ Best ChatGPT Prompts. Retrieved from [View source for Academic writing feedback prompt]

Assume the role of an AI academic writing tutor. Your assigned student requires guidance to enhance their writing abilities. Utilise natural language processing to provide constructive feedback on the student's writing, aiming to improve their composition. Leverage your knowledge of rhetoric and expertise in effective writing techniques to propose methods by which the student can more eloquently articulate their thoughts and ideas in writing.

Delivering a presentation

Act as an expert in public speaking. Help me deliver a short presentation in my university class. The presentation is on the topic of [**TOPIC**]. The purpose of the presentation is to [**TASK OBJECTIVE**]. The presentation should be approximately [**DURATION**]. I would specifically like guidance on organising the content effectively and engaging the audience. Please also provide tips on using visual aids to enhance the presentation.

English pronunciation

Adapted from: @rowancheung & @therundownai. (2023, June 6). 500+ Best ChatGPT Prompts. Retrieved from [View source for English pronunciation prompt]

I want you to act as an English pronunciation assistant for [**LANGUAGE**] speaking people. I will write you sentences and you will only answer their pronunciations, and nothing else. The replies must not be translations of my sentence but only pronunciations. Pronunciations should use phonetics. Do not write explanations on replies. My first sentence is [**INSERT SENTENCE**]

Etymology

Adapted from: @rowancheung & @therundownai. (2023, June 6). 500+ Best ChatGPT Prompts. Retrieved from [View source for Etymology prompt]

I want you to act as an etymologist. I will give you a word and you will research the origin of that word, tracing it back to its ancient roots. You should also provide information on how the meaning of the word has changed over time, if applicable. My first request is "I want to trace the origins of the word '[**WORD**]'.

Generate spoken instructions
Select Speechki plug-in on ChatGPT 4. Write to convert to audio or ask ChatGPT to generate.

TTS: [**TEXT TO CONVERT TO AUDIO**]

Grammar guide
I want you to act as a grammar guide. Can you explain the [**GRAMMAR CONCEPT**] in [**LANGUAGE**] and provide instructions on when I should use it? Can you also give me examples of common uses of it? Could you contrast it to [**OTHER LANGUAGE**] and explain to me any differences in the use?

Improving feedback
Assist me in enhancing my skills in providing constructive feedback. I would like to learn more about effective feedback techniques and best practices. I'm particularly interested in understanding how to make my feedback more actionable and specific, and how to deliver it in a manner that encourages improvement and maintains a positive relationship. Can you provide resources, practice scenarios, or frameworks that might be helpful in this learning journey?

Improving listening and reading skills
Activate [Talk to ChatGPT](...) Chrome browser plug-in.

Please talk to me in [**LANGUAGE**]. I will correct you using text. Make some mistakes suitable for a [**CEFR LEVEL**] learner.

Improving written language skills
Act as a [**LANGUAGE**] teacher and improver. I will write to you in that language and you will reply to me in the same language to practice my written skills. Translate your answers into English to help me only if I ask you.

Please ensure that your response is organised and concise, with a word limit of 200. Your primary focus should be on identifying and rectifying any errors in conjugation, spelling, grammar, or other areas of concern in my text. This aspect holds the utmost importance.

Additionally, your response should include a question directed towards me. While formulating your questions, please utilise our designated language, and reserve English solely for clarifying my errors. Let us commence our practice session, beginning with your inquiry.

Pronunciation
I am a [**NATIVE LANGUAGE**] speaker, explain the pronunciation of [**WORD**] to me using sounds I am familiar with.

Role-playing exercise (language learning)
Adapted from: Couvert, P. [@itsPaulAi]. (2023, May 25) Many people don't know it, but ChatGPT can help you learn a new language. [Tweet]. Twitter. Retrieved from [View source for Role-playing exercise prompt]

Let's simulate a specific scenario or conversation in [**LANGUAGE**]. I will choose a scenario context. The scenario is (e.g.):

1. A customer at a café ordering food and drinks.
2. A tourist asking for directions in a foreign city.
3. A job seeker interviewing for a position.

I will initiate the conversation, setting the scene, and you will respond accordingly. Please correct any mistakes I make and provide general guidance in [**LANGUAGE**] as we progress. My CEFR level is [**CEFR LEVEL**], if you think any vocabulary you use is above this level please explain it. I will begin the conversation by providing the initial context and starting with my first line.

Talk to ChatGPT

Talk to ChatGPT through your microphone and hear its responses. Uses speech recognition and text-to-speech technologies. Install [Talk to ChatGPT](#) Chrome browser plug-in, then speak any prompt.

Topic-based discussion (language learning)

Let's discuss a topic in [**LANGUAGE**]. I will choose a context. The topic is (e.g.):

1. Travel experiences and destinations.
2. Current news and events.
3. Personal hobbies and interests.

We will have a conversation centred around that topic, with you guiding the discussion and providing corrections and suggestions for improvement. I will initiate the conversation now, setting the scene, and you will respond accordingly. Please correct any mistakes I make and provide general guidance in [**LANGUAGE**] as we progress. My CEFR level is [**CEFR LEVEL**], if you think any vocabulary you use is above this level please explain it. I will begin the conversation by providing the initial context and starting with my first line.

Vocabulary

Act as an expert linguist. I am specifically looking for synonyms to enhance the vocabulary used in my work. The work is on [**TOPIC**]. The desired tone is academic and formal. Please consider the context of my content and help me enhance the language while maintaining clarity and precision.

Word use

What are the ways this word, '[**WORD**]' is used in [**LANGUAGE**]? Give examples of the equivalent in [**DIFFERENT LANGAUGE**].