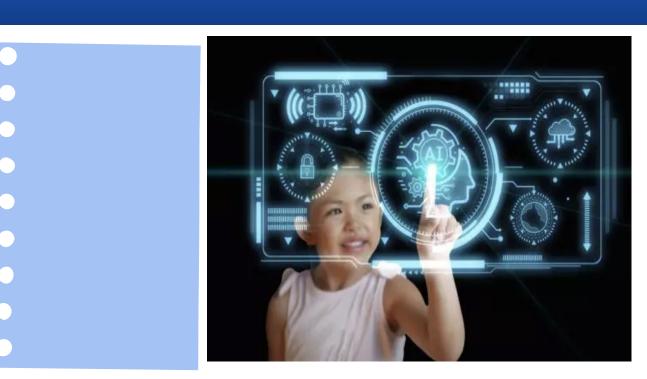
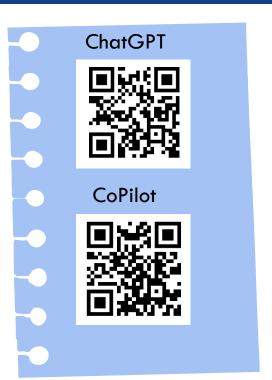
Culturally Responsive Considerations with Artificial Intelligence





A Culturally–Responsive Approach to using

Basics of Al prompting and Guided Practice

- > Macro-prompts
- > Micro-prompts
- Culturally Responsive Micro-prompts
- Contextualized Culturally Sustaining Micro-prompts

Communicating with Al- The Powerful Prompts

What are Prompts? are the instructions you give to Al tools to guide them toward a specific outcome, like <u>asking</u> a question or <u>telling</u> Al what you want.

The Craft of Prompt Engineering- Crafting clear and effective prompts is an essential skill (prompt engineering). Like having a conversation.

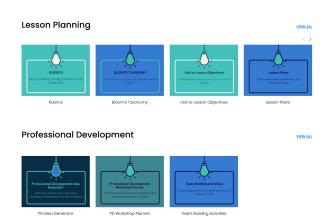
- Be specific/contextualized
- Build context
- Create a natural flow

Making Al Work for You

Think of prompting Al as engaging in a dialogue.

By giving clear, structured prompts, you can guide

the Al to produce better, more accurate responses.



Macro Prompting

Macro Prompt:



- a) **High-level instructions**: Macro prompting involves giving broader, less detailed commands. The prompt focuses on the overarching task or outcome, leaving room for the system to interpret and decide on details.
- b) **General guidance**: The Al is expected to fill in gaps or interpret subtasks based on a big-picture goal.
- c) **Use case**: Useful when you want the system to handle most of the decisions and steps involved in generating a response. For example, "Design a literacy lesson for Kindergarten students/Design a Physics lesson for Grade 12 Science students/Design a panel discuss framework for Sustainable Development for grad students" is a macro prompt, where the Al determines the structure and details of the content.



Macro Prompting - Practice



Macro Prompt:











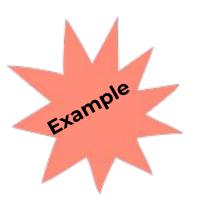




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Macro Prompt:

Create your own macro-prompt using an GenAl tool of your choice or the ChatGPT that you signed up for prior to this session.







Macro-Promptin

Kindergarten Literacy Lesson Plan

Theme: Letter Recognition and Phonics

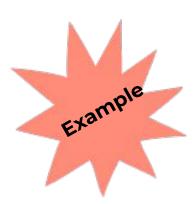
Duration: 30-40 minutes

Objective:

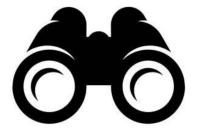
- Students will be able to recognize the letter "S" and its corresponding sound /s/.
- Students will practice writing the letter "S" and identify objects that start with the "S" sound.

Materials Needed:

- Alphabet chart
- Flashcards with pictures of objects starting with "S" (sun, sock, snake, star, etc.)
- · Whiteboard or chart paper
- · Markers or dry-erase markers
- Playdough (optional)
- "S" letter worksheet (with space for tracing and drawing objects starting with "S")
- Song: "The S Sound Song" (or any phonics song that includes the /s/ sound)
- Small toy or object starting with the "S" sound (optional)







Macro-Promptin

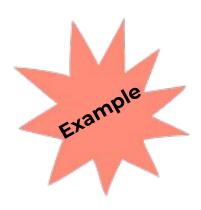
Grade 12 Physics Lesson Plan: Projectile Motion

Lesson Title: Understanding Projectile Motion with Real-Life Applications

Grade Level: 12 Subject: Physics Duration: 60 minutes Topic: Projectile Motion

Lesson Objectives: By the end of the lesson, students will be able to:

- Define projectile motion and identify key components (initial velocity, angle of projection, range, height, and time of flight).
- Apply kinematic equations to solve problems involving projectile motion.
- Analyze real-life applications of projectile motion.
- Conduct a hands-on experiment to observe and calculate projectile trajectories.

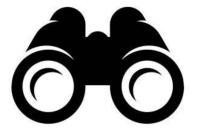




Panel Discussion Framework for Sustainable Development for Graduate Students

Title:

Bridging Knowledge to Action: A Graduate Student Perspective on Sustainable Development



Macro-Promptin

1. Objective of the Panel Discussion:

- To engage graduate students in a dialogue about the importance of sustainable development in their respective fields of study.
- To showcase interdisciplinary approaches, research initiatives, and practical strategies that contribute to sustainability.
- To inspire critical thinking and innovation for tackling global sustainability challenges.
- To facilitate networking among graduate students, academics, and practitioners working on sustainable development.

Acronym- 'CREATE'

Iarity/Character:

Clearly <u>define</u> the task or <u>intent</u> of the prompt. Describe the role the Al is to assume. Avoid using filler words or jargon" (Act as...; a university professor teaching first year BEd students, a Grade 1 teacher)

elevant/Request:

• Provide <u>relevant details</u> (specific keywords, facts, tone, audience). Clearly and specifically define the request.

"I want you to..." (Summarize, organize, compare, analyze, elaborate, reimagin, explain, design, etc.)

xamples:

• Give examples to <u>provide context and direction</u> (website link, upload a document) and be ethically engaged in your use of the Al (more to come)

void ambiguity/Additions:

• Focus on the key information. Refine the task by deleting unnecessary details. Describe a point of view to consider or a style to use.

- inker: Test and refine- multiple iterations
- For example, a 3-part lesson plan or assessment rubric (dialogue, syllabus, lesson plan, assessment, VR exp.)

valuate/Extras:

Evaluate output, adjust, any additional information you wish to provide.

Micro Prompt:

- a) **Specific instructions**: Micro prompting involves providing detailed, step-by-step instructions or constraints to the Al. It narrows down the scope of what the Al should do, addressing each small component of the task.
- b) **Targeted control**: This approach directs the Al to act on specific subtasks, allowing more precise control over the outcome.
- c) **Use case**: This is helpful when you want granular control over how the Al performs the task. For example, "Create a three-part multiliteracies lesson plan for Kindergarten students that is 30-minutes in length to help develop their phonological awareness. Make this lesson interactive and hands-on and focus on the emergent literacy stages components to inform this lesson." is a micro prompt, giving more focused guidance on structure, length, and content.

Micro Prompting - Practice

Micro Prompt:

- a) **Specific instructions:** Micro prompting involves providing detailed, step-by-step instructions or constraints to the Al. It narrows down the scope of what the Al should do, addressing each small component of the task.
- b) **Focused regulation**: This approach directs the AI to act on specific subtasks, allowing more precise regulation over the outcome.



Create a three-part multiliteracies lesson plan for Kindergarten students that is 30-minutes in length to helps develop their phonological awareness. Make this lesson interactive and hands-and focus use the emergent literacy stages components to inform this lesson.



Kindergarten Phonological Awareness Lesson Plan

Length: 30 minutes

Focus: Phonological Awareness (Rhyming, Syllables, Beginning Sounds)

Emergent Literacy Stages Components:

- Pre-Alphabetic Stage (Understanding that letters and sounds form the building blocks words)
- Partial Alphabetic Stage (Starting to associate letters with sounds, understanding the relationship between sounds and spelling)
- Full Alphabetic Stage (Recognizing and manipulating phonemes, rhyming, and syllable words)



Design a Grade 12 Physics lesson focused on Newton's Third Law of Motion. The lesson should include a clear learning objective, an engaging hands-on activity (e.g., balloon rockets or action-reaction demonstrations), step-by-step instructions, and assessment criteria. Ensure the content aligns with curriculum standards and encourages critical thinking and collaboration among students.

Grade 12 Physics Lesson Plan: Newton's Third Law of Motion

Lesson Topic: Newton's Third Law of Motion

Duration: 60 minutes

Grade Level: 12

Learning Objective:

By the end of the lesson, students will be able to:

- 1. Explain Newton's Third Law of Motion and its application to everyday scenarios.
- 2. Analyze and demonstrate action-reaction pairs using hands-on activities.
- 3. Collaborate to design experiments that showcase Newton's Third Law.
- 4. Evaluate the relationship between force, mass, and acceleration in action-reaction scenarios.



Sustainability Panel- Graduate Students

1. Panelist Selection

To ensure a broad and diverse range of viewpoints, the panel will consist of experts from different but complementary fields related to sustainability:

1. Environmental Policy Expert

Focus: Governmental frameworks, international agreements, and policy implications of sustainability.

2. Economist/Sustainable Development Specialist

Focus: The economic viability of sustainability initiatives, green economies, and financing sustainable development goals (SDGs).

3. Community Leadership/NGO Expert

Focus: Local level initiatives, community-based solutions, equity, and climate justice in marginalized communities.

4. Education/Research Expert

Focus: Integrating sustainability into educational systems, research innovations, and preparing future generations for sustainability challenges.

6. (Optional) Technologist/Innovator

Focus: Technological advancements driving sustainability (e.g., clean energy, sustainable agriculture, circular economy practices).

Design a structured panel discussion framework for students focused on Sustainable Development. The should outline a diverse panel of 4-5 experts from f environmental policy, education, economics, and co leadership, ensuring varied perspectives on sustain challenges and solutions. Identify 3-4 core themes discussion, such as climate justice, sustainable inno partnerships, and educational initiatives. Include a s that covers the introduction, panelist presentations Q&A, and audience interaction, with clear time allow the moderator's role in guiding the conversation, m and ensuring inclusivity. Describe strategies to fost engagement, such as live polling, breakout discussi floor Q&A. Conclude with a focus on desired outcor increased awareness, actionable insights, and netw opportunities to promote critical thinking and collab participants.

Create- Critical Examination of Text Sets

Create Your Own Text Set to Support Culturally Relevant Pedagogy

