

## 2. Student Handout

# Crafting Effective Prompts: Student Handout

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## Key Principles of Crafting Effective Prompts

### 1. Clarity

- **Definition:** Ensure your prompt is easy to understand.
- **Examples:**
  - Vague: "Tell me about India."
  - Clear: "Tell me about the cultural significance of Diwali in India."
  - Clear: "Describe the main features of the Taj Mahal."

### 2. Specificity

- **Definition:** Narrow down your request for a focused response.
- **Examples:**
  - Non-specific: "What are the benefits of yoga?"
  - Specific: "What are the mental health benefits of practicing yoga daily?"
  - Specific: "List the physical benefits of yoga for seniors."

### 3. Context

- **Definition:** Provide background information for relevance.
  - **Examples:**
    - Without context: "Explain the importance of teamwork."
    - With context: "Explain the importance of teamwork in a corporate environment."
    - With context: "Discuss teamwork in the context of a sports team."
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## Techniques for Refining Prompts

## 1. Iteration

- **Definition:** Improve your prompt step by step.
- **Examples:**
  - First prompt: "Tell me about yoga."
  - Refined: "Tell me about the mental health benefits of yoga."
  - Further refined: "How does yoga help reduce anxiety and stress?"

## 2. Context Setting

- **Definition:** Add necessary background information.
- **Examples:**
  - Initial: "Explain the importance of teamwork."
  - Refined: "Explain the importance of teamwork in project management."
  - Refined: "Discuss teamwork in remote work settings."

## 3. Framing Questions

- **Definition:** Use open-ended questions for detailed responses.
  - **Examples:**
    - Closed-ended: "Is yoga good for mental health?"
    - Open-ended: "How does yoga benefit mental health?"
    - Open-ended: "What are the key mental health benefits of yoga?"
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## Understanding Biases in AI Responses

### Mitigating Bias Through Prompt Design

- **Examples:**
    - Biased: "What are the best leadership qualities for men?"
    - Neutral: "What are the best leadership qualities for people in a corporate environment?"
    - Neutral: "Describe effective leadership qualities in diverse teams."
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# Creating Complex Prompts

## 1. Multi-Step Queries

- **Definition:** Ask the AI to perform multiple tasks.
- **Examples:**
  - "First, explain the history of yoga. Then, describe its mental health benefits."
  - "List the main ingredients of a recipe, then explain the cooking process."
  - "Summarize the plot of a book, then discuss its main themes."

## 2. Conditional Instructions

- **Definition:** Use conditions to guide the AI's response.
  - **Examples:**
    - "If yoga has mental health benefits, explain how it helps reduce anxiety."
    - "If teamwork is important, describe its impact on project success."
    - "If meditation improves focus, explain the underlying mechanisms."
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## Conclusion

To craft effective prompts:

1. **Clarity:** Ensure your prompt is easy to understand.
2. **Specificity:** Narrow down your request for a focused response.
3. **Context:** Provide enough background information.
4. **Refining Prompts:** Use iteration, context setting, and framing questions.
5. **Mitigating Bias:** Design prompts to be neutral and inclusive.
6. **Creating Complex Prompts:** Use multi-step queries and conditional instructions.

By applying these principles and techniques, you can communicate effectively with AI and receive the best possible responses.