PROMPT FOR DIVERSE FIELDS

1. Astrology

Prompt 1: Zero-Shot Prompting Pattern

- "What does a conjunction between Mars and Saturn signify in someone's birth chart?"
    - Success: The model provides an astrological interpretation of the conjunction.
    - Failure: The model provides a general definition of a conjunction without astrological context.

Prompt 2: Template Pattern

- "Provide a daily horoscope for Gemini focusing on career, love, and health."
    - Success: The model fills in the template with specific predictions for each area.
    - Failure: The model gives vague statements that could apply to any sign.

Prompt 3: Tail Generation Pattern

- "As Mercury enters retrograde, you may start noticing..."
    - Success: The model continues the sentence with specific astrological advice or predictions.
    - Failure: The model diverts to a general discussion about Mercury without astrological insights.

2. Cosmology

Prompt 1: Chain of Thought Prompting Pattern

- "Explain how the cosmic microwave background radiation supports the Big Bang theory."
    - Success: The model outlines a step-by-step explanation linking the radiation to the theory.
    - Failure: The model provides unrelated cosmic facts.

Prompt 2: Semantic Filter Pattern

- "Write a summary of the multiverse theory suitable for high school students without using complex mathematical terms."
    - Success: The model explains the theory in simple language.
    - Failure: The model uses advanced terminology not suitable for the audience.

Prompt 3: Question Refinement Pattern

- "I'm curious about black holes. How can I refine my question to learn about their impact on galaxy formation?"
    - Success: The model suggests asking about the role of supermassive black holes in galactic centers.
    - Failure: The model gives a direct answer about black holes without refining the question.

3. Ayurveda

Prompt 1: ReAct Pattern

- "A client reports feelings of persistent lethargy and indigestion. As an Ayurvedic practitioner, how would you address this?"
    - Success: The model suggests a holistic Ayurvedic approach tailored to these symptoms.
    - Failure: The model provides generic health advice not specific to Ayurveda.

Prompt 2: Game Plan Prompting

- "Outline a detoxification plan following Ayurvedic principles for someone with high pitta dosha."
    - Success: The model plans a detailed regimen including diet, exercise, and herbal treatments.
    - Failure: The model suggests a generic detox plan not aligned with Ayurvedic teachings.

Prompt 3: Audience Persona Pattern

- "Explain the concept of doshas to someone unfamiliar with Ayurveda, focusing on their importance in personal health."
    - Success: The model provides an introduction to doshas that is informative and accessible.
    - Failure: The model assumes too much prior knowledge and uses jargon.

4. Artificial Intelligence (AI)

Prompt 1: Flipped Interaction Pattern

- "As someone curious about AI, what questions do you have about its future impact on society?"
    - Success: The model stimulates an engaging discussion by posing thoughtful questions.
    - Failure: The model asks generic questions that don't pertain to AI's societal impact.

Prompt 2: Persona Pattern

- "Assume you're an AI ethics advisor. What guidelines would you suggest for the development of autonomous weapons systems?"
    - Success: The model adopts the persona and outlines ethical guidelines for development.
    - Failure: The model provides a general discussion on AI without ethical focus.

Prompt 3: Plan and Solve Pattern

- "A company wants to use AI to improve customer service. Plan how AI could be integrated and solve potential issues that may arise."
    - Success: The model creates a plan for AI integration and addresses possible challenges.
    - Failure: The model suggests AI tools without a plan or problem-solving strategies.

5. Astrophysics

Prompt 1: One-Shot Prompting Pattern

- "If a star is ten times more massive than the sun, how does its lifespan compare? Example: A star less massive than the sun will have a longer lifespan."
    - Success: The model uses the example to explain mass-lifespan relationships in stars.
    - Failure: The model discusses star properties without addressing the lifespan.

Prompt 2: Cognitive Verifier Pattern

- "When discussing the lifecycle of stars, what additional information would help clarify the topic for a beginner?"
    - Success: The model asks for clarification on aspects like star sizes or the universe's age.
    - Failure: The model gives a detailed explanation without seeking any clarification.

Prompt 3: Graph of Thought Pattern

- "Explore the connections between dark matter, dark energy, and the expansion of the universe."
    - Success: The model details the interrelated concepts and their contributions to expansion.
    - Failure: The model explains each concept in isolation without linking them.

6. Quantum Physics

Prompt 1: Tree of Thought Pattern

- "What are the potential implications of quantum entanglement for communication technologies? Consider different scenarios."
    - Success: The model considers multiple scenarios like faster data transfer or secure communications.
    - Failure: The model gives a generic explanation of quantum entanglement.

Prompt 2: Recipe Pattern

- "Explain how to set up a basic quantum physics experiment to demonstrate wave-particle duality using the double-slit setup."
    - Success: The model provides a step-by-step guide for the experiment.
    - Failure: The model describes the theory behind the experiment without practical steps.

Prompt 3: Prompt Chaining Pattern

- "What is the Heisenberg uncertainty principle? Based on this, what can we infer about the predictability of particle behavior?"
    - Success: The model explains the principle and then infers its impact on predictability.
    - Failure: The model only defines the principle without the subsequent inference.

7. Marine Biology

Prompt 1: Zero-Shot Prompting Pattern

- "Describe the symbiotic relationship between clownfish and sea anemones."
    - Success: The model provides a clear explanation of the mutualistic relationship.
    - Failure: The model gives generic information on either clownfish or sea anemones without focusing on the symbiosis.

Prompt 2: Semantic Filter Pattern

- "Create an informational pamphlet on coral reef conservation, suitable for elementary school students."
    - Success: The model crafts a simple, engaging pamphlet with appropriate language for young students.
    - Failure: The model produces content that is too complex or not engaging for the target age group.

Prompt 3: Question Refinement Pattern

- "I'm interested in marine life. How can I narrow down my question to learn specifically about deep-sea creatures?"
    - Success: The model helps refine the question to focus on the unique adaptations of deep-sea organisms.
    - Failure: The model provides a broad answer on marine life without refining the focus.

8. Archaeology

Prompt 1: ReAct Pattern

- "A new discovery suggests that ancient people might have used astronomy in their daily lives. How would you interpret this finding?"
    - Success: The model hypothesizes about how ancient civilizations may have integrated astronomy based on the new evidence.
    - Failure: The model gives a generic history of astronomy without addressing the discovery.

Prompt 2: Game Plan Prompting

- "Plan an archaeological expedition to a newly found ancient site. What steps would you take to ensure the preservation of artifacts?"
    - Success: The model outlines a detailed plan addressing excavation, preservation, and documentation.
    - Failure: The model focuses only on the excitement of discovery without a clear plan for preservation.

Prompt 3: Audience Persona Pattern

- "Explain the significance of the Rosetta Stone to a group of high school history students."
    - Success: The model tailors the explanation to be engaging and educational for teenagers.
    - Failure: The model provides an explanation that is too technical or too simplistic for high school students.

9. Cognitive Science

Prompt 1: Flipped Interaction Pattern

- "If you were teaching a course on cognitive biases, what questions would you ask to assess students' understanding?"
    - Success: The model proposes insightful questions that reflect the nuances of cognitive biases.
    - Failure: The model asks generic questions that don't pertain to cognitive biases.

Prompt 2: Persona Pattern

- "As a cognitive psychologist, what would be your approach to studying decision-making processes in humans?"
    - Success: The model adopts the persona and outlines a scientific approach to study decision-making.
    - Failure: The model discusses decision-making in general terms without a cognitive psychology perspective.

Prompt 3: Plan and Solve Pattern

- "Design a research study to investigate the effects of technology on attention spans. Include your methodology and potential challenges."
    - Success: The model creates a research plan with clear methods and addresses foreseeable challenges.
    - Failure: The model describes the effects of technology on attention without proposing a research study.

10. Nanotechnology

Prompt 1: One-Shot Prompting Pattern

- "What are the potential applications of nanotechnology in medicine? Provide one example."
    - Success: The model cites a specific application, like targeted drug delivery, and expands on it.
    - Failure: The model gives a general overview of nanotechnology without focusing on medical applications.

Prompt 2: Cognitive Verifier Pattern

- "In discussing nanomaterials, what additional details would be helpful to understand their environmental impact?"
    - Success: The model asks for specifics, like the types of nanomaterials or the environments in question.
    - Failure: The model provides information on nanomaterials without verifying the scope of environmental impact.

Prompt 3: Graph of Thought Pattern

- "Analyze the relationship between nanotechnology, material strength, and electronics miniaturization."
    - Success: The model discusses how advancements in nanotechnology contribute to creating stronger materials and smaller electronics.
    - Failure: The model addresses these topics separately without showing their interconnections.