Name _____

May the Best Prompt Win Answer Key

Suggested Ranking (from most useful → least useful)

1. Prompt D - "Give me a detailed explanation of how photosynthesis works. Be sure to include the role of chlorophyll, sunlight, carbon dioxide, and water, and show how each of these parts contributes to the process."

This is the strongest because it's clear, detailed, and specifies exactly what information to include. Students would get a thorough, accurate explanation.

2. Prompt B - "Please explain how photosynthesis works in very simple terms, as if you are teaching it to a middle school student who has never heard the word before. Keep it clear, easy, and free of confusing jargon."

Excellent because it sets a clear **audience** (middle schoolers) and tone (simple, jargon-free). Great for accessibility and learning.

3. Prompt C - "Explain photosynthesis and describe the overall process that allows plants to make their own food. Keep the explanation short and straightforward."

Decent balance between clarity and brevity, but less guidance than B or D. Might result in oversimplification.

4. Prompt E - "Write a creative poem or short piece of writing that explains the process of photosynthesis. Make it entertaining to read, but also make sure the science is accurate and understandable."

Fun and engaging, but depending on how the AI handles creativity, accuracy could get diluted. Good for motivation, less strong for pure learning.

5. Prompt F - "Describe photosynthesis in one long paragraph without using any scientific terms like chlorophyll or glucose. Focus on making it sound like an everyday story that even someone with no science background could follow."

Interesting constraint (no scientific terms), but this limits accuracy and detail. Could confuse more advanced learners.

6. Prompt A - "Can you tell me some general information about plants and how they live? I'm curious about their basic life processes, but I don't need too much detail."

Too vague. The AI might talk about seeds, roots, plant parts, or general biology instead of focusing on photosynthesis. Least likely to deliver exactly what's needed.