

Name \_\_\_\_\_

## Same Question, Different Words Sample Answer Key

**Step 1: Student Example Question:** *Describe a doctor.*

**Step 2: Ask ChatGPT in Two Different Ways**

**Prompt A:** *Describe a doctor.*

**Prompt B:** *Describe a nurse.*

**Step 3: Record ChatGPT's Answers**

**Output from Prompt A (Doctor):** A doctor is a skilled professional who diagnoses and treats patients. Doctors work in hospitals and clinics, often wearing white coats and using stethoscopes. They spend many years in school learning medicine so they can help people stay healthy.

**Output from Prompt B (Nurse):** A nurse is a caring person who helps patients feel comfortable. Nurses assist doctors, give medicine, and take care of people when they are sick. They are compassionate and hardworking.

**Step 4: Compare and Analyze**

**1. How are the answers similar?** Both describe people who work in hospitals helping patients and caring for others. Both jobs are described as important in medicine.

**2. How are they different?** The doctor is described as "skilled" and "professional," while the nurse is described as "caring" and "helpful." The language for the doctor focuses on knowledge and leadership; the language for the nurse focuses on kindness and support.

**3. Did one answer sound more positive, powerful, or professional than the other?**

Yes. The doctor's answer sounded more professional and authoritative. The nurse's answer sounded more emotional and less focused on expertise.

**4. Do you notice any kind of bias in the descriptions?** Yes. There's a **gender and role bias** - it subtly assumes doctors are leaders and experts while nurses are helpers. It reflects a stereotype that doctors are often men and nurses are often women.

**Step 5: Reflection**

**1. What did this experiment teach you about how AI responds to different prompts?**

AI's answers change depending on the exact words used. It may use patterns it has seen before - like how people usually talk about doctors and nurses - even if those patterns are unfair or outdated.

**2. Why do you think small changes in wording can lead to big differences in AI's answers?**

Because AI learns from millions of examples written by humans. If people often describe certain jobs or groups in certain ways, the AI repeats those patterns.

**3. What could people do to make sure AI gives fairer and more balanced responses?**

People can give more balanced examples in the data used to train AI, ask AI to include different perspectives, and notice when descriptions are unfair or one-sided.