

Name _____

Unraveling the Age of the Universe: How Do We Know its Age?

Open-Ended Response Questions

1. If you could explain the concept of the universe's age to someone who has never heard of it, how would you describe it using everyday language?
2. Imagine you are a scientist studying the cosmic microwave background radiation. What kind of data or observations might you collect to gain a better understanding of the universe's early history?
3. Consider the analogy of the cosmic calendar. If each second represents around 440 years of cosmic history, what cosmic events or milestones might correspond to specific months or days on this calendar?
4. Reflect on the significance of knowing the age of the universe. How does it deepen our understanding of the cosmos, and what questions might it help us answer in the future?

