

Name \_\_\_\_\_

## A Universe on the Move

### Open-Ended Response Questions

1. Imagine you are a scientist researching cosmic inflation. Explain to a friend why cosmic inflation is a crucial concept in cosmology and why you are so fascinated by it.
2. Reflect on the idea of cosmic inflation as a turbo boost for the universe's expansion. How has inflation shaped the universe, and what mysteries might it help us uncover in the future?
3. Consider the challenges of detecting evidence for cosmic inflation. What are some of the difficulties scientists face, and what technological advancements might improve our chances of confirmation?
4. If you were tasked with designing an experiment to confirm the existence of cosmic inflation, what would your approach be, and what instruments or tools would you use? Explain the steps you would take to ensure accuracy and reliability.

