

Name _____

Comets: Visitors from the Cosmic Ice Realm

Open-Ended Response Questions

1. Reflect on the awe and wonder that comets have inspired in people throughout history. Discuss the impact of comets on ancient civilizations and the various cultural interpretations of these celestial visitors.
2. Explore the scientific significance of studying comets in our modern era. How does the study of comets contribute to our understanding of the solar system's formation and evolution?
3. Consider the potential for future space missions to comets. Describe the objectives and scientific goals of such missions, as well as the challenges and benefits of exploring these icy wanderers up close.
4. Imagine a scenario in which a massive comet is on a collision course with Earth. Discuss the potential consequences of such an impact and the strategies that scientists might employ to prevent or mitigate it.

