

Name _____

Cosmic Collisions: Can Comets Collide with Earth?

Open-Ended Response Questions

1. Imagine a hypothetical scenario where a comet is detected on a collision course with Earth. Describe the steps and strategies that scientists and governments might employ to mitigate the impact and protect the planet.
2. Research and discuss the impact of the Tunguska event in 1908 on Earth's atmosphere and the surrounding region. How did it shape our understanding of comet and asteroid collisions?
3. Explore the role of international cooperation in tracking and monitoring near-Earth objects (NEOs). How do organizations like NASA and international space agencies work together to safeguard our planet?
4. Delve into the field of planetary defense and the technologies that could potentially be used to prevent or deflect a comet or asteroid on a collision course with Earth.

