

Name _____

Exploring the Wonders of Astronomy

Open-Ended Response Answer Key

1. Astronomers use mathematics to calculate the positions and movements of celestial objects, helping them predict events like eclipses and planet alignments.
2. Studying galaxies helps us understand the large-scale structure of the universe and its evolution over time. It also provides insights into the distribution of matter and dark matter in the cosmos.
3. Answers may vary but should include a celestial object and a reason for choosing it.
4. The study of asteroids and comets helps us learn about the early solar system's formation and the potential risks they pose to Earth. It also provides insights into the origins of water and organic molecules on our planet.

