

Name _____

Can a Telescope Reveal Distant Galaxies and Nebulae?

Open-Ended Response Questions

1. Imagine you are an amateur astronomer with a small telescope in a suburban area with moderate light pollution. How would you adapt your observing strategies to make the most of your stargazing experience? Describe specific objects or events you would target and why.
2. Reflect on the beauty and significance of nebulae in the cosmos. Choose one famous nebula and describe its appearance, location in the night sky, and any interesting facts or discoveries associated with it.
3. Discuss the impact of light pollution on the ability to observe distant galaxies and nebulae from your backyard. What steps can individuals and communities take to reduce light pollution and preserve our view of the night sky?
4. Suppose a friend has purchased their first telescope and is eager to explore the night sky. Offer them advice on selecting an appropriate telescope for observing distant galaxies and nebulae. Consider factors such as aperture size, portability, and budget constraints in your recommendations.

