

Name _____

Exploring the Mysteries of Our Galaxy: Are There Black Holes in Our Milky Way?

Open-Ended Response Questions

1. Reflect on the significance of discovering black holes in our own galaxy, the Milky Way. How does this discovery contribute to our understanding of the universe?
2. Consider the challenges and breakthroughs in black hole research. Discuss the remarkable progress made in the detection and study of black holes, as well as the unanswered questions that remain.
3. Explore the concept of a black hole's event horizon, the boundary beyond which nothing can escape. Discuss its role in the definition and understanding of black holes.
4. Imagine the impact of a supermassive black hole suddenly disappearing from the center of a galaxy. Discuss the potential consequences for the surrounding stars, planets, and the galaxy as a whole.

