Name _____

From Stellar Endings to Cosmic Mysteries: Can a Star Turn into a Black Hole?

Open-Ended Response Questions

1. Describe the relationship between a star's mass and the likelihood of it transforming into a black hole. How does the mass of our Sun compare to the critical mass needed for a black hole formation?

2. Explain the concept of the event horizon of a black hole. What significance does it hold in the context of black hole physics?

3. Discuss the ongoing mysteries and challenges associated with understanding black holes. What methods and technologies are astronomers using to study and unravel the mysteries of these cosmic enigmas?

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