Name _____

Stellar Collisions: Can Stars Crash into Each Other?

Open-Ended Response Questions

1. Imagine you are an astronomer studying a globular cluster. How would you identify and observe potential binary star systems that could lead to stellar collisions? What instruments or methods would you use?

2. Stellar collisions are relatively rare events in the universe. Discuss the impact of these rare collisions on our understanding of cosmic evolution and the elements present in the universe.

3. Suppose two stars in a binary system collide and merge. Describe the potential changes in the newly formed star's characteristics, and explain how this merger could influence its future evolution.

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