

Name \_\_\_\_\_

## Stellar Collisions: Can Stars Crash into Each Other?

### Multiple Choice Questions

1. Why are stellar collisions more likely to occur in densely packed regions of the universe?
  - a) Stars in these regions are larger.
  - b) Stars in these regions are hotter.
  - c) Stars in these regions are closer together.
  - d) Stars in these regions are older.
  
2. What can happen when two massive stars collide?
  - a) They form a stable binary system.
  - b) They create a red dwarf star.
  - c) They trigger a supernova.
  - d) They lose mass and become smaller.
  
3. Where are stellar collisions most likely to be observed?
  - a) In isolated regions of space.
  - b) In galaxies like the Milky Way.
  - c) In densely packed star clusters.
  - d) Near the center of the universe.
  
4. What is the outcome when two stars merge after a collision?
  - a) They become less massive.
  - b) They form a black hole.
  - c) They create a white dwarf.
  - d) They become a single, more massive star.
  
5. Why are stellar collisions considered rare events?
  - a) Because stars don't exist in clusters.
  - b) Because stars are too small to collide.
  - c) Because most stars are located in less densely populated regions of space.
  - d) Because stars have strong magnetic fields.

