

Name \_\_\_\_\_

## What Happens When Galaxies Collide?

### Multiple Choice Questions

1. What causes galactic encounters and interactions?
  - a) Electric fields
  - b) Mutual gravitational attraction
  - c) Magnetic forces
  - d) Solar winds
  
2. How do galactic collisions differ from typical car accidents on Earth?
  - a) Galaxies collide at high speeds.
  - b) Galaxies experience catastrophic destruction.
  - c) Galactic collisions are slow, graceful dances influenced by gravity.
  - d) Galaxies collide with significant force.
  
3. What can happen when two galaxies of similar size collide and merge?
  - a) They create a supernova.
  - b) They form a black hole.
  - c) They produce a new, larger galaxy.
  - d) They explode and scatter into space.
  
4. How do gravitational forces during galactic encounters affect the shape of galaxies?
  - a) They cause galaxies to explode.
  - b) They result in the immediate collision of stars.
  - c) They create tidal distortions and elongated shapes.
  - d) They generate cosmic fireworks.
  
5. What surprising outcome can result from galactic collisions?
  - a) The destruction of both galaxies involved.
  - b) The formation of asteroid belts.
  - c) The stimulation of star formation.
  - d) The disappearance of supermassive black holes.

