

Name \_\_\_\_\_

## What Happens When Galaxies Collide?

### Short Answer

1. How do tidal distortions during galactic encounters affect the appearance of galaxies?
2. Explain the concept of galactic mergers and why they are significant in the study of galaxy evolution.
3. What role do supermassive black holes play in galactic collisions, and why are they of interest to scientists?
4. Describe the outcome of star formation during a galactic collision and its impact on the galaxies involved.
5. Why is the study of gravitational waves generated by merging black holes during galactic collisions important for astrophysics?

