

Name \_\_\_\_\_

## What Is A Supermassive Black Hole?

### Short Answer

1. Explain the concept of an event horizon in the context of a black hole.
2. What are some processes believed to contribute to the formation and growth of supermassive black holes?
3. How do astronomers calculate the mass of supermassive black holes, and what do they study to make these calculations?
4. What is an active galactic nucleus (AGN), and why are galaxies hosting AGNs of particular interest to astronomers?
5. Why is understanding the role of supermassive black holes in galaxy evolution essential for astronomers and our understanding of the universe?

