

Name \_\_\_\_\_

## How are Black Holes Formed?

### Short Answer

1. Describe the two possible outcomes for a massive star after a supernova explosion.
2. What is the significance of the event horizon in the formation of a black hole?
3. Explain the difference between a neutron star and a black hole in terms of mass and density.
4. How does the mass of a collapsing star's core affect whether it becomes a black hole or a neutron star?
5. Why are supermassive black holes typically found at the centers of galaxies?

