

Name \_\_\_\_\_

## Gravity's Mysteries: Theoretical Challenges in Understanding the Force of Attraction

### Short Answer

1. Why is it challenging to combine the principles of quantum mechanics with the theory of general relativity?
2. How does dark matter affect the behavior of galaxies, and why is it considered a challenge in understanding gravity?
3. What role does dark energy play in the expansion of the universe, and why is it still a theoretical concept?
4. Explain the concept of a black hole singularity and why it poses a challenge to our understanding of gravity.
5. What are some of the possible implications of not fully understanding the nature of gravity waves?

