

Name \_\_\_\_\_

## Unveiling the Mystery: Dark Matter and Its Cosmic Significance

### Short Answer

1. Explain how galactic rotation curves provide evidence for the existence of dark matter.
2. What is gravitational lensing, and how does it help scientists detect dark matter?
3. Describe the significance of dark matter in maintaining galactic stability.
4. How does the presence of dark matter influence the universe's fate, and what are the possible scenarios?
5. What are some ongoing research efforts and experiments aimed at detecting and studying dark matter?

