

Name \_\_\_\_\_

## Stargazing Wonders: Measuring the Universe with Light

### Short Answer

1. Explain how the parallax technique is used to measure the distance to nearby stars.
2. Describe the Doppler effect and how it helps astronomers determine the speed of stars and galaxies.
3. What is a light year, and why is it a useful unit of measurement in astronomy?
4. Briefly explain the significance of the Hubble Space Telescope in astronomy and its contributions to our understanding of the universe.
5. Summarize the concept of the universe's expansion and what it implies about the cosmos.

