

Name _____

How Do We Measure The Distance To Galaxies?

Short Answer

1. Describe the parallax method used to measure the distance to nearby stars.
2. Explain why standard candles are essential for measuring cosmic distances and provide examples of such objects.
3. How does Hubble's Law relate the redshift of galaxies to their distances, and what does this law reveal about the universe's expansion?
4. Describe the characteristics of Cepheid variables and how they are used to determine cosmic distances.
5. Why is the cosmic distance ladder an essential tool in astronomy, and how does it ensure the accuracy of distance measurements?

