

Name _____

Unlocking the Mystery: How Vast Is the Universe?

Multiple Choice Questions

1. What is the size of the observable universe in terms of light-years?
 - a) 1 million light-years
 - b) 93 billion light-years
 - c) 100 light-years
 - d) 1 trillion light-years

2. How do scientists estimate the size of the universe?
 - a) By measuring the weight of galaxies
 - b) By counting the number of stars
 - c) By calculating cosmic distances using Cepheid variables
 - d) By observing the colors of galaxies

3. What is a light-year?
 - a) A unit of time
 - b) The distance light travels in a year
 - c) The brightness of a star
 - d) The age of the universe

4. Who discovered that the universe is expanding?
 - a) Albert Einstein
 - b) Isaac Newton
 - c) Edwin Hubble
 - d) Galileo Galilei

5. What does the vastness of the universe suggest about our place in it?
 - a) We are the center of the universe.
 - b) We are the only intelligent life forms.
 - c) We are a tiny part of an enormous cosmos.
 - d) We can easily travel to other galaxies.

