

Name _____

Twin Stars: The Marvel of Binary Systems

Multiple Choice Questions

1. What are binary stars?
 - a) Stars that exist in isolation
 - b) Stars that are gravitationally bound to each other
 - c) Stars that always appear as separate points of light
 - d) Stars that are stationary in the night sky

2. Which type of binary stars can be observed as separate stars through a telescope?
 - a) Spectroscopic Binaries
 - b) Eclipsing Binaries
 - c) Visual Binaries
 - d) Wide Binaries

3. How do astronomers detect the presence of spectroscopic binary stars when they appear as a single point of light?
 - a) By observing their eclipses
 - b) By analyzing shifts in their light spectra
 - c) By measuring their distances from Earth
 - d) By studying their changing colors

4. What causes the temporary decrease in brightness in eclipsing binary stars?
 - a) Their varying temperatures
 - b) Their rapid rotation
 - c) Their gravitational interaction
 - d) One star passing in front of the other

5. Why are binary stars important in the field of astronomy?
 - a) They are excellent sources of heat and light
 - b) They are easy to observe with the naked eye
 - c) They provide insights into stellar evolution and accurate mass measurements
 - d) They are the only stars that form in binary systems

