

Name _____

A Quest Beyond Earth

Multiple Choice Questions

1. What are exoplanets?
 - a) Planets within our solar system
 - b) Planets orbiting stars other than our sun
 - c) Planets with no atmosphere
 - d) Moons of distant galaxies

2. Which method involves observing a star's slight dimming when a planet passes in front of it?
 - a) Direct imaging
 - b) Radial velocity method
 - c) Transit method
 - d) Wobble detection

3. What is the habitable zone, also known as the Goldilocks zone?
 - a) A region of space where exoplanets have lots of gold
 - b) An area around a star with extreme temperatures
 - c) The zone where planets with liquid water could exist
 - d) A zone where planets are too cold for any life

4. What do astronomers search for to detect possible signs of extraterrestrial life on exoplanets?
 - a) Earth-like terrain
 - b) Fossils and ancient civilizations
 - c) Biosignatures, such as specific gases in exoplanet atmospheres
 - d) Volcanic activity

5. Which space mission has contributed significantly to the discovery of exoplanets using the transit method?
 - a) Kepler
 - b) TESS
 - c) Hubble Space Telescope
 - d) James Webb Space Telescope

