

Name _____

Hunting for Alien Life: Are We Alone in the Universe?

Multiple Choice Questions

1. What is one essential condition for life as we know it?
 - a) Carbon-based chemistry
 - b) Strong magnetic fields
 - c) Bright starlight
 - d) Heavy rainfall

2. Where in our solar system do scientists search for signs of extraterrestrial life due to its evidence of water?
 - a) Venus
 - b) Earth
 - c) Mars
 - d) Jupiter

3. What does the "habitable zone" around a star refer to?
 - a) The region where life already exists
 - b) The region with extreme temperatures
 - c) The region where conditions might be right for liquid water to exist
 - d) The region without any planets

4. How do scientists search for extraterrestrial intelligence (SETI)?
 - a) By analyzing rock samples from Mars
 - b) By listening for radio signals from advanced civilizations
 - c) By studying the atmospheres of exoplanets
 - d) By sending robots to distant celestial bodies

5. What question does the Fermi Paradox raise?
 - a) How many planets are in our solar system?
 - b) Why do exoplanets have extreme temperatures?
 - c) Why haven't we found any signs of intelligent life despite suitable conditions in the universe?
 - d) How far is Earth from the Sun?

