

Name _____

A Quest Beyond Earth

Open-Ended Response Questions

1. Imagine you are an astronomer using the transit method to detect exoplanets. Describe the steps you would take and the information you would gather from observing a star's dimming.
2. Reflect on the challenges astronomers face in searching for exoplanets with potential for life. How might future advancements in technology help overcome these challenges?
3. If you were leading a space mission to explore exoplanets, what specific goals and instruments would you prioritize, and what insights do you hope to gain about these distant worlds?
4. Consider the implications of discovering an exoplanet with unmistakable signs of extraterrestrial life. How might this discovery impact our understanding of life's existence beyond Earth, and what questions might it raise?

