

Name _____

Refracting vs. Reflecting Telescopes: Unveiling the Key Differences

Open-Ended Response Questions

1. Imagine you are an astronomer planning to observe distant galaxies and nebulae. Which type of telescope would you choose, and why? Discuss its design features and advantages for your research.
2. Explain how maintenance and alignment differ between refracting and reflecting telescopes. Which type of telescope might be more convenient in this regard for amateur astronomers?
3. Discuss the historical significance of refracting telescopes, such as Galileo's use of them in the 17th century. How did these telescopes revolutionize astronomy?
4. Reflect on the impact of chromatic aberration in refracting telescopes and its implications for observing celestial objects. How have modern refractors addressed this issue?

