

Name \_\_\_\_\_

## Light's Journey: Through Space and Beyond

### Open-Ended Response Questions

1. Imagine you are on a distant planet where there is no atmosphere. How would the absence of an atmosphere affect the way light travels and how you perceive the environment?
2. Discuss the practical applications of refraction in our daily lives and give examples of devices or technologies that utilize this phenomenon.
3. Why do you think the colors of a rainbow always appear in the same order, from red on the outside to violet on the inside? What scientific principle explains this phenomenon?
4. Consider the importance of absorption and reflection in the design of solar panels. How do these properties of light affect the efficiency of solar panels in converting sunlight into electricity?

