

Name \_\_\_\_\_

## Colors of Light: Wavelengths and Frequencies Unveiled

### Open-Ended Response Questions

1. Imagine you are an artist creating a painting that represents different emotions using the colors of the spectrum. Describe the colors you would use and explain why you chose them for specific emotions.
2. Discuss the practical applications of understanding the relationship between wavelength and frequency in industries like interior design, fashion, or advertising.
3. Consider how the color spectrum of visible light connects with the concept of visible and ultraviolet light in the electromagnetic spectrum. How does this knowledge impact our daily lives and technology?
4. Reflect on the impact of cultural differences in color symbolism. How might the meanings and associations of colors vary from one culture to another, and what role does psychology play in our perception of colors?

