

# The Electromagnetic Spectrum

Use with Chapter 5,  
Section 5.1

1. What kinds of waves have the longest wavelength? What kinds of waves have the shortest wavelength?

Radio waves have the longest wavelength. Gamma have the shortest.

2. Which waves have the lowest frequency?

Radio waves have the lowest frequency.

3. Which has a higher frequency: microwaves or X rays?

X rays

4. Which waves can be seen by the eye?

Visible light

5. Sequence the different segments of the visible spectrum in order from shortest wavelength to longest wavelength.

Violet, blue, green, yellow, orange, and red.

6. Sequence the following types of waves from lowest frequency to highest frequency: ultraviolet rays, infrared rays, gamma rays, radio waves, and green light.

Radio, infrared, green, ultraviolet, and gamma.

7. Compare the wavelengths and frequencies of each kind of wave. What is the relationship between frequency and wavelength?

As wavelength increases, frequency decreases and vice versa.

8. What is the wavelength of a radio station emitting its signal at 95.5 MHz? Express your answer in the correct units and sig.

# Physics Transparency Answers

**Annelies Wilder-Smith**



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## Decoding **Physics Transparency Answers**: Revealing the Captivating Potential of Verbal Expression

In a time characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its power to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Physics Transparency Answers**," a mesmerizing literary creation penned by a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring impact on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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