

# ELECTROMAGNETIC RADIATION

## READING COMPREHENSION WORKSHEET

|  |   |   |  |
|--|---|---|--|
| <p>Fill each blank with the appropriate word or phrase.</p> <p>1. The electromagnetic spectrum ranges from radio waves to _____.</p> <p>2. According to Planck's quantum theory, energy is emitted in _____.</p> <p>3. According to Bohr's model, electrons in atoms _____.</p> <p>4. Radio waves are used to _____.</p> <p>5. Ultraviolet electromagnetic waves are used to _____.</p> <p>Fill each blank with the corresponding number.</p> <p>6. Match electromagnetic radiation to its function.</p> <p>7. Match wavelength.</p> <p>8. Match frequency.</p> <p>9. Match energy.</p> <p>10. Match momentum.</p> <p>11. Match speed.</p> <p>Write a short response that answers the question.</p> <p>12. Explain how the wave and particle models of electromagnetic radiation are related.</p> <p>13. How does wavelength influence the ability of electromagnetic radiation to penetrate matter?</p> <p>14. Describe a practical application for each of the following.</p> <p>15. Why are gamma rays harmful to cells and to DNA?</p> <p>16. Explain the relationship between frequency and wavelength.</p> | <p>Identify whether each statement is True or False.</p> <p>17. Electromagnetic waves travel through the vacuum of space.</p> <p>18. Electromagnetic waves travel at the same speed.</p> <p>19. The frequency of electromagnetic waves is directly related to their wavelength.</p> <p>20. The energy of electromagnetic waves is directly related to their frequency.</p> <p>21. Electromagnetic waves are composed of electric and magnetic fields.</p> <p>22. Electromagnetic waves are composed of photons.</p> <p>23. The speed of light is constant in a vacuum.</p> <p>24. The wavelength of electromagnetic waves is directly related to their frequency.</p> <p>25. The energy of electromagnetic waves is directly related to their frequency.</p> <p>26. The speed of light is constant in a vacuum.</p> <p>27. The wavelength of electromagnetic waves is directly related to their frequency.</p> <p>28. The energy of electromagnetic waves is directly related to their frequency.</p> | <p>Match each term with its definition.</p> <p>1. Radio waves</p> <p>2. Infrared</p> <p>3. Visible light</p> <p>4. Ultraviolet</p> <p>5. X-rays</p> <p>6. Gamma rays</p> <p>7. Microwave</p> <p>8. Radio waves</p> <p>9. Infrared</p> <p>10. Visible light</p> <p>11. Ultraviolet</p> <p>12. X-rays</p> <p>13. Gamma rays</p> <p>14. Microwave</p> <p>15. Radio waves</p> <p>16. Infrared</p> <p>17. Visible light</p> <p>18. Ultraviolet</p> <p>19. X-rays</p> <p>20. Gamma rays</p> | <h3>Electromagnetic Radiation</h3> <p>Read the passage carefully before answering the questions that follow.</p> <p>Electromagnetic radiation encompasses a broad spectrum of waves that radiate from particles and interactions. Different frequencies and wavelengths, the wave description considers these aspects in describing electric and magnetic fields propagating through space at speeds determined by their frequency and wavelength. Quantum mechanics consider this region as discrete energy packets, or photons, emitted during atomic transitions in all frequency or wavelength. For each wave, the particle nature is more prominent, including wave-particle duality and observation from classical to quantum, which are dependent of observer depending on wave energy level.</p> <p>A quantum explanation, different part of the spectrum can be used for various electromagnetic fields, wave and particles are important in quantum mechanics, with their ability to penetrate matter and ionize atoms. Long wavelength, low energy, infrared and radio, radiating with higher frequencies and energies, ultraviolet and gamma, having ionizing or more activities. Speed of electromagnetic waves in the vacuum is the same, but through different materials, with varying and direction depending on wavelength and medium properties.</p> <p>Observation of space-time and observation between energy and mass, structure, composition of matter, objects and function of propagating radiation. Sometimes understanding wave or matter, the Planck constant, which also provides energy to frequency and wavelength, quantum mechanics, allowing from space and time and related wave function quantum particles.</p> <p>Match the correct answer for each question.</p> <p>1. Which part of the electromagnetic spectrum has the shortest wavelength?</p> <p>2. Which part of the electromagnetic spectrum is visible light?</p> <p>3. Which part of the electromagnetic spectrum has the longest wavelength?</p> |
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