



Electromagnetic

The Electromagnetic Spectrum

1. Arrange the following types of waves from lowest to highest frequency while keeping the lowest and 1 being the highest:

- | | |
|--------------|----------------------|
| <u> 6 </u> | a. microwaves |
| <u> 5 </u> | h. visible light |
| <u> 4 </u> | m. gamma rays |
| <u> 3 </u> | ab. radio waves |
| <u> 2 </u> | u. infrared waves |
| <u> 1 </u> | de. X rays |
| <u> 7 </u> | g. ultraviolet waves |

Instructions: For each of the following questions, select the correct answer. Multiple responses are possible.

- | | | |
|--------------|---|--------------------------|
| <u> a </u> | 1. The visible electromagnetic spectrum encompasses visible light and also called the _____ | <u> </u> |
| | a. radio | a. 4,000 to 700 nm |
| | b. electromagnetic spectrum | b. ionizing light |
| <u> b </u> | 2. Radio waves have the _____ waves | |
| | a. shortest | a. higher frequency |
| | b. longest | b. greatest |
| <u> c </u> | 3. _____ can heat or fry food. Electromagnetic frequency waves heat things. | |
| | a. X rays | a. high-frequency |
| | b. radio waves | b. electromagnetic waves |
| <u> d </u> | 4. _____ are absorbed by the ozone layer | |
| | a. infrared waves | a. microwaves |
| | b. gamma rays | b. electromagnetic waves |
| <u> e </u> | 5. Radio waves are electromagnetic waves that _____ | <u> </u> |
| | a. gamma rays | a. electromagnetic |
| | b. X rays | b. microwaves |
| <u> f </u> | 6. Infrared waves _____ | <u> </u> |
| | a. infrared waves | a. radio |
| | b. ultraviolet rays | b. radio waves |
| <u> g </u> | 7. The visible electromagnetic spectrum that can be seen with eyesight is _____ | <u> </u> |
| | a. infrared waves | a. microwaves |
| | b. visible light | b. X rays |

Section 2 Reinforcement The Electromagnetic Spectrum

Answers

R Pring



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Prentice Hall Science Explorer: Teacher's ed ,2005 **Reinforcement** ,1999* *Physics* Neville G. Warren,2004

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