

Chapter 18 The Electromagnetic Spectrum and Light

Section 18.1 Electromagnetic Waves**(pages 532–538)***This section describes the characteristics of electromagnetic waves.***Reading Strategy** **page 532**

Comparing and Contrasting As you read about electromagnetic waves, fill in the table below. If the characteristic listed in the table describes electromagnetic waves, write E in the column for Wave Type. Write M for mechanical waves and B for both. For more information on this Reading Strategy, see the *Reading and Study Skills* in the *Skills and Reference Handbook* at the end of your textbook.

Electromagnetic and Mechanical Waves	
Travels through a vacuum	E
Travels through medium	
Has wave model	B
Has particle model	
Transverse wave	
Longitudinal wave	

What Are Electromagnetic Waves? **page 532**

- What are electromagnetic waves? _____

- Electric fields are produced by electrically charged particles and by changing _____.

- Magnetic fields are produced by magnets, by changing _____, and by vibrating charges.

- Electromagnetic waves are produced when a(n) _____ vibrates or accelerates.

- Circle the letter of each sentence that is true about electric and magnetic fields.
 - An electromagnetic wave occurs when electric and magnetic fields vibrate at right angles to each other.
 - A magnetic field is surrounded by an electric current.
 - Changing electric and magnetic fields regenerate each other.
 - Electromagnetic waves are produced when an electric charge vibrates.
- Is the following sentence true or false? Electromagnetic waves need a medium to travel through. _____
- The transfer of energy by electromagnetic waves traveling through matter or across space is called _____.

Section 1 The Electromagnetic Answers

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