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Electromagnetic Waves

Answers

# **Section 18 1**

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## Electromagnetic Waves

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### **physical science: Section 18.1**

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### **Electromagnetic Waves ...**

Electromagnetic waves are waves that consist of vibrating electric and magnetic fields. Like other waves, electromagnetic waves transfer energy from one place to another. The transfer of energy by electromagnetic waves is called electromagnetic radiation.

Electromagnetic waves can transfer

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energy through matter or across empty space.

### **Electromagnetic Waves - CK12-Foundation**

Section 18.1 Electromagnetic Waves{pages532-538} This section describes the characteristics of electromagnetic waves. What Are

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## Answers

Electromagnetic Waves? (page 533)

### **Section 18.1 Electromagnetic Waves** **{pages**

18.1 Electromagnetic Waves. Reading Strategy. Comparing and Contrasting Copy the table below. As you read about electro- magnetic waves, fill in the table to compare them with



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## Electromagnetic Waves

### Answers

mechanical waves. Use E for properties of electromagnetic waves, M for mechanical waves, and B for both. Key Concepts.

### **Section 18.1 18.1 Electromagnetic Waves**

Electromagnetic waves differ from mechanical waves in how they are

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produced and how they travel. How They Are Produced Electromagnetic waves are produced by constantly changing fields.

### **CHAPTER The Electromagnetic Spectrum and Light**

Section 1 - Electromagnetic Waves.

What are electromagnetic waves? What

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## Electromagnetic Waves

### Answers

do microwaves, cell phones, police radar, television, and X-rays have in common? All of them use electromagnetic waves. Electromagnetic waves are transverse waves consisting of changing electric fields and changing magnetic fields. Electromagnetic Spectrum.

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## **Section 1 Electromagnetic Waves - grygla.k12.mn.us**

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## Answers

The Electromagnetic Spectrum Type  
Uses of Waves Radio waves  
Communications Infrared rays Keeping  
food warm Visible light Ultraviolet rays X-  
rays Gamma rays The Waves of the  
Spectrum (pages 539-540) 1. The  
electromagnetic spectrum includes  
visible light, gamma rays, ultraviolet  
rays, X-rays, infrared rays, and radio

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waves.

## **Chapter 18 The Electromagnetic Spectrum and Light Section ...**

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## **section 1 electromagnetic waves Flashcards and Study Sets ...**

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

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## Answers

table below. If the characteristic listed in the table describes electromagnetic waves, write E in the column for Wave Type.

### **Chapter 18 The Electromagnetic Spectrum and Light Section ...**

Start studying Section 18.2 - The Electromagnetic Spectrum. Learn



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## Answers

vocabulary, terms, and more with flashcards, games, and other study tools.

### **Section 18.2 - The Electromagnetic Spectrum Flashcards ...**

- Electromagnetic waves are transverse waves produced by the motion of electrically charged particles called

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## Electromagnetic Waves

### Answers

photons. • Electromagnetic waves do not require a medium and are therefore able to travel at the speed of light. • The speed of light =  $3 \times 10^8$  m/s (300,000,000 m/s) At this speed it can go around the world 8 times in one second.

## **Section 18.6 Electromagnetic Waves**

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## Answers **and the Electromagnetic ...**

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## **Section 18 1 Electromagnetic Waves Answers**

Section 1 1 Both are caused by something vibrating, and both transfer energy Sound waves are compressional waves they must have a medium to transfer energy Electromagnetic waves are transverse waves They can travel

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## Answers

without a medium 2 Electric charges vibrate or oscillate 3 A moving charge is always surrounded by both an

### **[Book] Section 1 The Electromagnetic Answers**

1 The Electromagnetic Spectrum and Light 539 Print • Reading and Study Workbook With Math Support, Section

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18.2 • Math Skills and Problem Solving  
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Go Online, NSTA SciLinks,  
Electromagnetic spectrum ...

## **18.2 The Electromagnetic Section**

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## Answers

### **18.2 Spectrum 1**

Section 18.2 The Electromagnetic Spectrum (pages 539–545) This section identifies the waves in the electromagnetic spectrum and describes their uses. Reading Strategy (page 539) Summarizing Complete the table for the electromagnetic spectrum. List at least two uses for each kind of wave. For

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Answers

more information on

## **Chapter 18 The Electromagnetic Spectrum and Light Section ...**

In seismology, several types of surface waves are encountered. Surface waves, in this mechanical sense, are commonly known as either Love waves (L waves) or Rayleigh waves. A seismic wave is a



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## Electromagnetic Waves

### Answers

wave that travels through the Earth, often as the result of an earthquake or explosion. Love waves have transverse motion (movement is perpendicular to the direction of travel, like light waves), whereas ...

### **Surface wave - Wikipedia**

Waves and the Electromagnetic

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## Electromagnetic Waves

### Answers

Spectrum (M7Q1) 36. Photoelectric Effect (M7Q2) 37. Emission Spectra and H Atom Levels (M7Q3) 38. Wave Interference, Diffraction (M7Q4) 39. DeBroglie, Intro to Quantum Mechanics, Quantum Numbers 1-3 (M7Q5) 40. 4th Quantum Number, Orbitals (M7Q6) 41. Electron Configurations, Orbital Box Notation (M7Q7) 42.

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## **Waves and the Electromagnetic Spectrum (M7Q1) - UW-Madison ...**

This aging process on the particles coating will be studied in Section 2.1.  
Download : [Download high-res image \(276KB\)](#) Download : [Download full-size image](#); Fig. 1. Sample#1 (a), sample#2 (b) and sample#3 (c) images, with

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applied magnetic field. The image corresponding to sample #3 presents the small chains observed after aging effects.

### **Optical transmission of ferrofluids exposed to a magnetic ...**

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