

WAVES, SOUND AND LIGHT STUDY GUIDE

Chapter 8 Section 1:

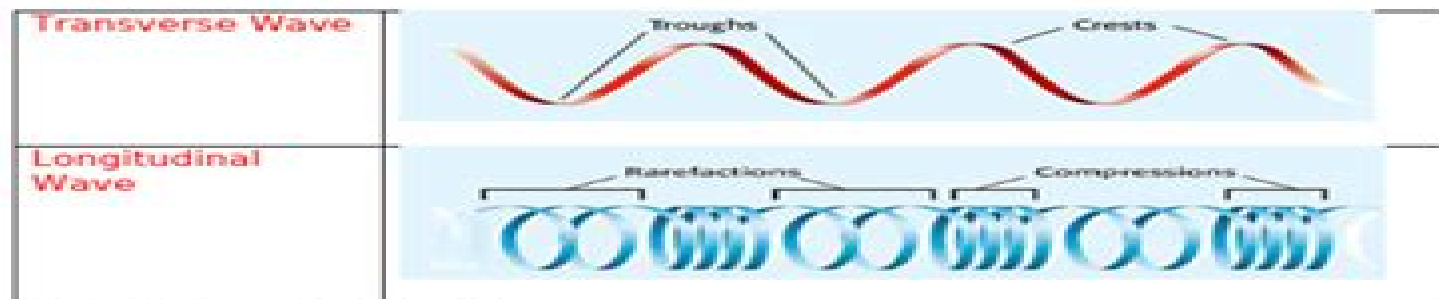
1. What is the difference between mechanical and electromagnetic waves?

Mechanical waves are periodic disturbances that **must pass through matter/medium**. Mechanical waves are longitudinal (sound) waves, seismic waves, and ocean waves. **Electromagnetic waves** are a disturbance, which **does not require a medium**, or matter in order to transmit energy; can travel even through a vacuum; and caused due to varying electric and magnetic fields. Mechanical waves are transverse waves such as radio waves, microwaves, infrared, visible light, ultraviolet, x-rays, and gamma rays.

2. Give 3 examples of electromagnetic waves.

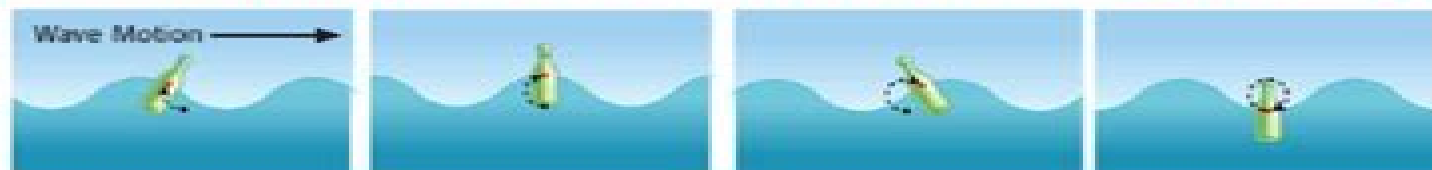
Visible light, gamma rays, radio waves

3. Draw and label a transverse AND longitudinal wave.



4. What is a surface wave?

Surface waves look like transverse waves, but the particles of the medium move in circles rather than up and down; a combination of transverse and longitudinal



waves.

Chapter 8 Section 2:

5. List and define the 3 properties that all waves have?

1. **Amplitude** - the largest distance a wave moves away from the rest position.
LARGER AMPLITUDE = MORE ENERGY

Waves Sound And Light Study Guide Answers

Gerald W. Sielaff



Waves Sound And Light Study Guide Answers:

Excel Science Study Guide, Years 7-8 Nicholas Pefani, 2005 **Study Guide for Physics in the Modern World 2E** Jerry Marion, 2012-12-02 Study Guide for Physics in the Modern World 2E provides information pertinent to the fundamental concepts in physics This book presents a list of concepts definitions and equations with various supplementary exercises for the readers Comprised of 21 chapters this book starts with an overview of the standard units of measure for length time mass energy force pressure and density This text then provides the meaning of various terms in physics including atom molecule element and compound Other chapters explore the composition and behavior of all ordinary matter in which it depends on the four basic units including electrons protons neutrons and photons This book discusses as well the method used for converting the units of physical quantities from one system of measurement to another The final chapter deals with the various applications of radiation in biological investigations as well as in medical diagnostics and therapeutics This book is intended for students enrolled in introductory physics courses **General Studies : Self Study Guide Book with 100 Topics Covered (1500+ MCQs in Practice Tests) - Useful for SSC, Railway, UDC, LDC, Police, Bank, UPSC, MBA, MAT and other Competitive Exams** EduGorilla Prep Experts, 2024-05-01 The presented book has been prepared keeping the candidates in mind in which the syllabus useful for the examination has been included Through this book we will be helped in understanding various aspects related to the subject EduGorilla Publications a reputed education technology organization has created a comprehensive book General Studies with the personal guidance of Rohit Manglik CEO of the organization It provides a structured and excellent approach to exam preparation and helps you build a strong foundation in key concepts and topics *Study Guide for Fundamentals of Radio* Gerald W. Sielaff, 1963 Waves, Sound and Light, 2005 Waves, Sound, and Light, 2005 **Class 10 Physics Questions and Answers PDF** Arshad Iqbal, The Class 10 Physics Quiz Questions and Answers PDF 10th Grade Physics Competitive Exam Questions Chapter 1 9 Practice Tests Grade 10 Physics Textbook Questions for Beginners includes revision guide for problem solving with hundreds of solved questions Class 10 Physics Questions and Answers PDF book covers basic concepts analytical and practical assessment tests Class 10 Physics Quiz PDF book helps to practice test questions from exam prep notes The Grade 10 Physics Quiz Questions and Answers PDF eBook includes revision guide with verbal quantitative and analytical past papers solved tests Class 10 Physics Questions and Answers PDF Free download chapter 1 a book covers solved common questions and answers on chapters Atomic and nuclear physics basic electronics current and electricity electromagnetism electrostatics geometrical optics information and communication technology simple harmonic motion and waves sound tests for school and college revision guide Physics Interview Questions and Answers PDF Download free eBook s sample covers beginner s solved questions textbook s study notes to practice online tests The Class 10 Physics Interview Questions Chapter 1 9 PDF book includes high school question papers to review practice tests for exams Class 10 Physics Practice Tests a textbook s revision guide with

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