

THE ELECTROMAGNETIC SPECTRUM

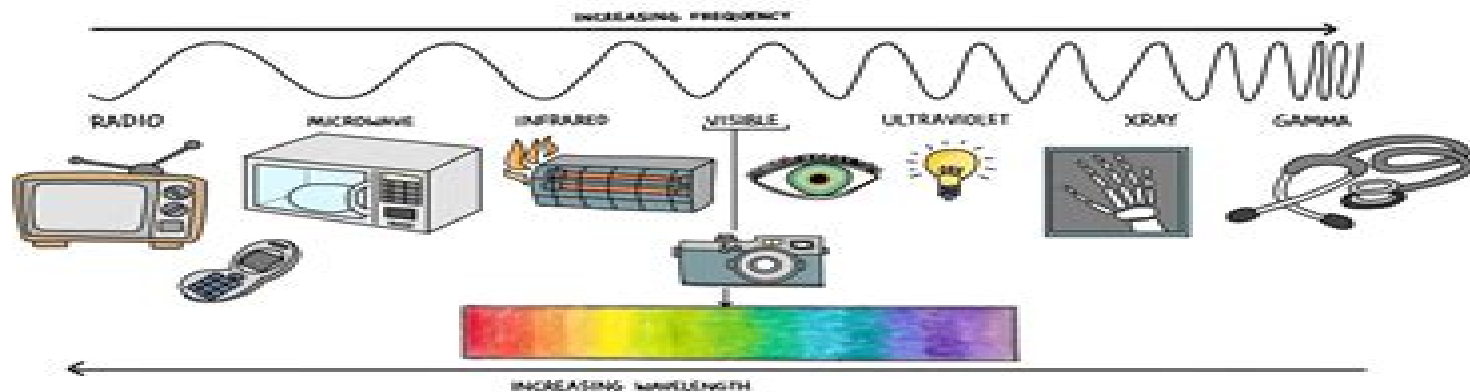
EM waves are transverse waves and travel at the same speed in a vacuum. Radio waves have the longest wavelength and the shortest frequency, whereas gamma rays have the shortest wavelength and the highest frequency.

Radio	Ripped
Micro	Men
Infrared	In
Visible light	Violet
Ultraviolet	Underpants (are)
X-ray	extremely
Gamma	Gorgeous



Uses of EM radiation

Radio waves - TV and radio broadcasting
 Microwaves - satellite TV, mobile phone communications and in microwave ovens for heating food
 Infra-red - used in heating devices such as heaters and grills
 Visible light - optical fibre communications and photography
 Ultraviolet - used in fluorescent lamps and for detecting forged banknotes
 X-ray - detection of broken bones and fractures
 Gamma - sterilisation of food and medical equipment



Dangers of EM waves

Small amounts of exposure to EM waves is harmless but repeated exposures to large doses of EM radiation can have serious health consequences. In general, the higher the frequency of radiation, the more dangerous it is.

Microwaves can heat the water inside our cells so microwave ovens have a coating to shield microwaves from the user.

Infrared radiation can cause skin burns and skin cancer. Insulating materials are used for protection.

Ultraviolet radiation can cause damage to surface cells and blindness. UV can mutate DNA and cause cancer. Suncream can protect against UV exposure.

Gamma radiation can penetrate cells and mutate DNA, leading to tissue damage or cancer. People who work with gamma radiation will limit the time they are exposed. Sources of gamma rays are kept in a lead lined box.

Questions

1. List the types of radiation in the electromagnetic spectrum from the lowest frequency to the highest frequency.
2. Are EM waves classed as transverse or longitudinal?
3. Gamma radiation is used in hospitals even though it can be dangerous.
 - a) Describe one use of gamma radiation in hospitals.
 - b) Explain the risk to patients and doctors of using gamma radiation.
 - c) State one way of reducing the risks to a doctor who uses gamma radiation.
4. Name two types of EM waves that are used for communications.
5. Name two types of EM waves that are used for cooking.
6. Ultrasound waves are used in hospitals to produce an image of a fetus. Ultraviolet waves are used by doctors to cure some skin conditions. Suggest two differences between ultrasound and ultraviolet waves.

Waves And Electromagnetic Spectrum Worksheet Answers

McGraw-Hill Staff



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Prentice Hall Science Explorer: Teacher's ed ,2005 Modules ,2005 Educart ICSE Class 10 One-shot Question Bank 2026 Physics (strictly for 2025-26 boards) Sir Tarun Rupani,2025-07-12 Concept clarity exam level practice for ICSE Physics Class 10 This One shot Question Bank by Sir Tarun Rupani is a complete revision and practice tool for ICSE Class 10 Physics created strictly according to the latest 2025 26 CISCE syllabus Ideal for both last minute prep and structured study the book balances theory with practical problem solving Key Features Based on the Latest ICSE 2025 26 Syllabus Full coverage of topics like Force Light Sound Electricity Magnetism and more One shot Format Each chapter begins with crisp summaries important formulas and diagrams for fast conceptual understanding All Question Types Covered Includes MCQs short answers long answers numericals and diagram based questions Chapterwise PYQs Included Real exam questions from past ICSE papers to familiarise students with actual paper trends Solved Answers in ICSE Format Stepwise solutions with proper units working and presentation as per the official marking scheme Numerical Practice Focus Special attention to frequently asked numericals and formula based problems with tricks to avoid calculation errors Why Choose This Book Whether you re revising Physics formulas or tackling complex numericals this One shot by Sir Tarun Rupani provides the exact support needed to boost your confidence and performance An ideal revision companion to master Physics and score high in the 2026 ICSE board exam **Radiologic Science for Technologists** Stewart C. Bushong,1997 The purpose of this textbook is to convey a working knowledge of radiologic physics and to prepare radiography students for the certification exam by the ARRT The textbook also provides a standard of knowledge from which practicing radiographers can make decisions about technical factors and diagnostic image quality in the work place This edition gives an expanded coverage of quality management which includes all of the content on the ARRT It also includes coverage of new cardiovascular interventional equipment and recent advances in spiral CT and digital radiography Keeps students informed and up to date with respect to professional standards and requirements **Glencoe Science** McGraw-Hill Staff,2001-08 **Science Interactions** ,1996 *Jacaranda Nature of Biology 2 VCE Units 3 and 4, LearnON and Print* Judith Kinnear,Marjory Martin,Lucy Cassar,Elise Meehan,Ritu Tyagi,2021-10-29 Jacaranda Nature of Biology Victoria s most trusted VCE Biology online and print resource The Jacaranda Nature of Biology series has been rewritten for the VCE Biology Study Design 2022 2026 and offers a complete and balanced learning experience that prepares students for success in their assessments by building deep understanding in both Key Knowledge and Key Science Skills Prepare students for all forms of assessment Preparing students for both the SACs and exam with access to 1000s of past VCAA exam questions now in print and learnON new teacher only and practice SACs for every Area of Study and much more Videos by experienced teachers Students can hear another voice and perspective with 100s of new videos where expert VCE Biology teachers unpack concepts VCAA exam questions and sample problems For students of all ability levels All students can understand deeply and succeed in VCE with

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Invisible Universe Stephen M. Pompea,Alan Gould,Lincoln Bergman,2002 The 5 class sessions of 45 60 minutes each deepen student understanding of the electromagnetic spectrum enabling students to detect and consider wavelengths other than visible light Activities feature energy stations including infrared TV remote microwave pager ultraviolet black light and other devices Students come up with their own tests to see what blocks each wavelength and what does not They learn how these other wavelengths can be used to see things we cannot see with our eyes **Addison-Wesley Science Insights**,1996 *Exploring Earth and Space* Michael DiSpezio,1995 A textbook exploring such aspects of matter and energy as heat electricity and nuclear chemistry with suggested activities and review questions at the end of each chapter *Science Spectrum* Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,2003-03 **Radio Waves** Wade Flach,2021-03-17 The book reassesses the Kelvin temperature scale by spectrum for wider application The idea occurred to the author to revise the temperature scale where the Kelvin scale is no longer practical because a true temperature scale must be based upon electromagnetic radiation and the Kelvin scale is not based on the EM Spectrum The Kelvin scale is based on a foggy notion of absolute zero temperature in which there is no motion inside of atoms Kelvin s scale is based on no motion not on the electromagnetic spectrum and thus is flawed So in the pursuit of a true scale I ventured into a review of the Electromagnetic Spectrum and several new ideas came forth the most astounding of these new ideas is the bifurcation of the spectrum into radio waves versus all other waves of EM Waves Rumi Michael Leigh,2023-05-24 *Waves Things You Should Know Questions and Answers* explains the principles of wave motion through a question and answer format The text covers frequency wavelength amplitude velocity and energy transfer with worked examples to show how these properties are applied in physics Topics include mechanical waves sound waves light waves and electromagnetic waves with attention to how they propagate and interact Exercises move from basic definitions to more advanced problems including calculations of wave speed period and phase difference The book also examines reflection refraction interference and resonance connecting theoretical concepts with problem solving practice This book will interest students physics learners and exam candidates who want to study waves and their role in science *Assignments in Junior Science* Chris Greef,Suada Bilali,2006 Waves and Our Universe Mark Ellse,Chris Honeywill,2003 The revised edition of the highly successful Nelson Advanced Science Physics series comprises lively high quality student books for AS and A2 Level Phsyics Nelson Thornes and Edexcel have listened carefully to customer feedback to bring the best most accurate and up to date materials to the classroom This is the only fully

endorsed Advanced Level modular Edexcel specific course and Waves and Our Universe provides full content coverage of Unit 4 of the AS and A2 Level specifications *An Introduction to Waves | Electromagnetic and Mechanical Waves |.Self Taught Physics | Science Grade 6 | Children's Physics Books* Baby Professor,2021-11-01 This time let s learn to measure light This science book will teach your fifth grader that light is an energy form that can be measured using wavelengths cycle and frequency Also included in the discussion are the characteristics of white light such as transparency translucency and opacity This is a wonderful read that is inline with standard school curriculum Get a copy today Exploring the Spectrum Philip S. Callahan,1994 This book attempts to explain not only the visible light spectrum but also the invisible high energy nuclear and low energy infrared and radio portions of the electromagnetic spectrum Part one is about the physics of the spectrum part two about the spectrum of life Many pictures short stories tables and figures complete the book **Waves** Darlene R. Stille,2006 While offering clear step by step explanations of scientific principles the titles in this series also discuss the social significance and history of each subject using the most up to date research on the Physical Earth or Life Science addressed

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