#### Waves Interference Remote Lab 2 Interference

(This lesson is designed for a student working remotely.)

This lab uses the <u>Waves Interference</u> simulation from PhET Interactive Simulations at University of Colorado Boulder, under the CC-BY 4.0 license.

https://phet.colorado.edu/sims/html/wave-interference/latest/wave-interference\_en.html.

Note about prior learning: Students should have completed Waves on a String Remote Lab and Waves. Interference Remote Lab 1 (or Waves Intro Remote Lab ) or lessons with similar learning goals.

Learning Goals: Students will be able to:

- A. Create an interference pattern with two sources, and determine the ways to change the pattern.
- B. Find points of constructive and destructive interference by eye and by using the detectors.
- C. Put up a barrier to see how the waves move through one or two slits. What sort of pattern do the slits create? How can you change this pattern?

Develop your understanding: Open the Interference screen, then explore to make water waves with varying patterns.



#### Explain your understanding:

1. Consider these three patterns of water waves:



- Describe the similarities and differences of the three patterns of water waves.
  - i. The wave patterns between pictures A and B are similar because they both have interference patterns which shows there are multiple sources. Picture G's wave patterns does not show any wave interference. A and C also share the similarity of frequencies and this is shown from the crests and troughs of the wave. C and B do not have any other similarities other than the amplitude of the waves.
- Experiment to make similar patterns, then explain how you can use the simulation to make each.

# **Phet Electromagnetic Wave Simulation Answers**

Jonathon Grooms, Patrick J.
Enderle, Todd Hutner, Victor Sampson

#### **Phet Electromagnetic Wave Simulation Answers:**

**The Design of Future Educational Interfaces** Sharon Oviatt, 2013-08-21 The Design of Future Educational Interfaces provides a new multidisciplinary synthesis of educational interface research It explains how computer interfaces can be redesigned to better support our ability to produce ideas think and solve problems successfully in national priority areas such as science and mathematics Based on first hand research experience the author offers a candid analysis of emerging technologies and their impact highlighting communication interfaces that stimulate thought The research results will surprise readers and challenge their assumptions about existing technology and its ability to support our performance In spite of a rapid explosion of interest in educational technologies there remains a poor understanding of what constitutes an effective educational interface for student cognition and learning This book provides valuable insights into why recent large scale evaluations of existing educational technologies have frequently not shown demonstrable improvements in student performance The research presented here is grounded in cognitive science and experimental psychology linguistic science and communications cross cultural cognition and language computer science and human interface design and the learning **Internal Assessment Physics for the IB Diploma: Skills for Success** sciences and educational technology Christopher Talbot, 2019-05-27 Exam board International Baccalaureate Level IB Diploma Subject Physics First teaching September 2021 First exams Summer 2023 Aim for the best Internal Assessment grade with this year round companion full of advice and guidance from an experienced IB Diploma Physics teacher Build your skills for the Individual Investigation with prescribed practicals supported by detailed examiner advice expert tips and common mistakes to avoid Improve your confidence by analysing and practicing the practical skills required with comprehension checks throughout Prepare for the Internal Assessment report through exemplars worked answers and commentary Navigate the IB requirements with clear concise explanations including advice on assessment objectives and rules on academic honesty Develop fully rounded and responsible learning with explicit reference to the IB learner profile and ATLs

[Ustice-Oriented Science Teaching and **Learning** David Steele, Alison K. Mercier, 2025-02-21 This textbook provides K 12 science teachers and educators innovative uses of anchoring phenomenon based teaching approaches from a justice oriented lens Morales Doyle 2017 It discusses topics such as the use of anchoring phenomenon based pedagogies qualities of productive anchoring phenomena and includes examples of unit plans that use anchoring phenomena and social justice science issues to create storylines to foster students multiple pathways to knowing and learning in the science classrooms The book is beneficial to K 12 science teachers and science educators who are interested in facilitating students sense making of a real world phenomenon and engaging in three dimensional science instruction NGSS Lead States 2013 By providing examples of unit plans based on theoretical groundings of anchoring phenomenon based instruction and justice oriented science teaching this book provides a great resource to students professionals teachers and academics in science education The World of Applied

**Electromagnetics** Akhlesh Lakhtakia, Cynthia M. Furse, 2017-08-08 This book commemorates four decades of research by Professor Magdy F Iskander Life Fellow IEEE on materials and devices for the radiation propagation scattering and applications of electromagnetic waves chiefly in the MHz THz frequency range as well on electromagnetics education This synopsis of applied electromagnetics stemming from the life and times of just one person is meant to inspire junior researchers and reinvigorate mid level researchers in the electromagnetics community The authors of this book are internationally known researchers including 14 IEEE fellows who highlight interesting research and new directions in theoretical experimental and applied electromagnetics **Student Lab Manual for Argument-Driven Inquiry in** Physical Science Jonathon Grooms, Patrick J. Enderle, Todd Hutner, Victor Sampson, 2016-10-01 Are you interested in using argument driven inquiry for middle school lab instruction but just aren t sure how to do it Argument Driven Inquiry in Physical Science will provide you with both the information and instructional materials you need to start using this method right away The book is a one stop source of expertise advice and investigations to help physical science students work the way scientists do Student Lab Manual for Argument Driven Inquiry in Life Science provides the student materials you need to guide your students through these investigations With lab details student handouts and safety information your students will Science Of The Earth, Climate And Energy Milton W Cole, Angela D Lueking, David L be ready to start investigating Goodstein, 2018-04-27 Whether on personal health politics or climate change we are constantly bombarded with more numerous breaking news articles than we have time for In such an environment how can we tell which to read or which is even true Science of the Earth Climate and Energy helps readers understand major issues that affect us individually and the world as a whole In language that a non scientist can follow easily the book first explains the general principles of science its nature and how it works with a certain degree of emphasis on the meaning of the words uncertainty and fact before it goes into the related topics of the earth its climate and energy sources at a level that does not require a background in science Finally the book addresses what individuals and societies can do to mitigate problems associated with both climate change and limited resources Related Link s **Argument-Driven Inquiry in Physical Science** Jonathon Grooms, Patrick J. Enderle, Todd Hutner, Ashley Murphy, Victor Sampson, 2016-10-01 Are you interested in using argument driven inquiry for middle school lab instruction but just aren t sure how to do it Argument Driven Inquiry in Physical Science will provide you with both the information and instructional materials you need to start using this method right away The book is a one stop source of expertise advice and investigations to help physical science students work the way scientists do The book is divided into two basic parts 1 An introduction to the stages of argument driven inquiry from question identification data analysis and argument development and evaluation to double blind peer review and report revision 2 A well organized series of 22 field tested labs designed to be much more authentic for instruction than traditional laboratory activities. The labs cover four core ideas in physical science matter motion and forces energy and waves Students dig into important content and learn scientific

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Radio Wave Propagation and Parabolic Equation Modeling Gokhan Apaydin, Levent Sevgi, 2017-08-31 An important contribution to the literature that introduces powerful new methods for modeling and simulating radio wave propagation A thorough understanding of electromagnetic wave propagation is fundamental to the development of sophisticated communication and detection technologies The powerful numerical methods described in this book represent a major step forward in our ability to accurately model electromagnetic wave propagation in order to establish and maintain reliable communication links to detect targets in radar systems and to maintain robust mobile phone and broadcasting networks The first new book on guided wave propagation modeling and simulation to appear in nearly two decades Radio Wave Propagation and Parabolic Equation Modeling addresses the fundamentals of electromagnetic wave propagation generally with a specific focus on radio wave propagation through various media The authors explore an array of new applications and detail various virtual electromagnetic tools for solving several frequent electromagnetic propagation problems All of the methods described are presented within the context of real world scenarios typifying the differing effects of various environments on radio wave propagation This valuable text Addresses groundwave and surface wave propagation Explains

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