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

Milton W Cole, Angela D Lueking, David L Goodstein

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