

START HERE

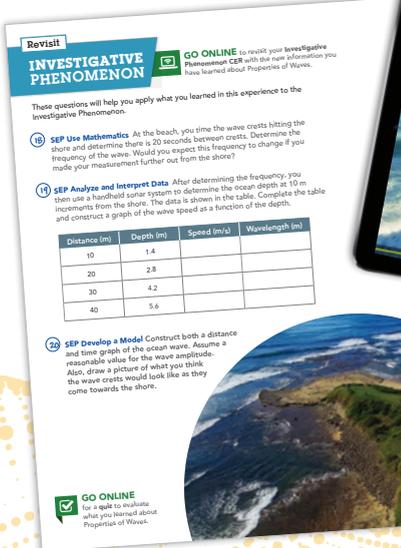
Experience Physics

Begin with the Teacher Guide

Experience Physics is about what students DO to achieve NGSS performance expectations for physics. Features range from phenomena demonstrations to engineering projects, from hands-on inquiry labs to math practice virtual simulations, and much more! The Teacher Guide gives you the full scope of the program.

Phenomenal Experiences

Begin with a relevant and engaging phenomenon. Encourage students to ask and answer questions, gather evidence, and organize their reasoning as they experience the concepts of physics firsthand.



Revisit

INVESTIGATIVE PHENOMENON

GO ONLINE to revisit your Investigative Phenomenon CEB with the new information you have learned about Properties of Waves.

These questions will help you apply what you learned in this experience to the Investigative Phenomenon.

18 **SEP Use Mathematics** At the beach, you time the wave crests hitting the shore and determine there is 20 seconds between crests. Determine the frequency of the wave. Would you expect this frequency to change if you made your measurement further out from the shore?

19 **SEP Analyze and Interpret Data** After determining the frequency, you then use a handheld sonar system to determine the depth at 10 m increments from the shore. The data is shown in the table. Complete the table and construct a graph of the wave speed as a function of the depth.

Distance (m)	Depth (m)	Speed (m/s)	Wavelength (m)
10	1.4		
20	2.8		
30	4.2		
40	5.6		

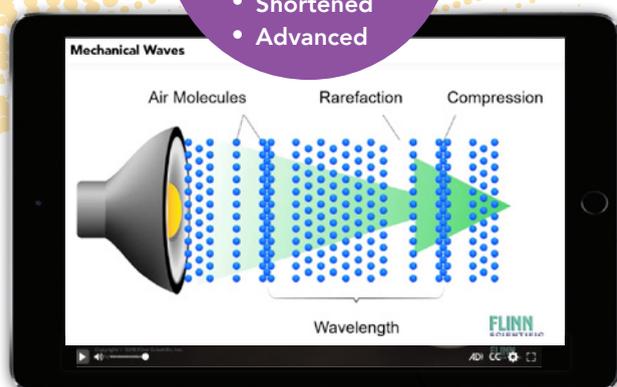
20 **SEP Develop a Model** Construct both a distance and time graph of the ocean wave. Assume a reasonable value for the wave amplitude. Also, draw a picture of what you think the wave crests would look like as they come towards the shore.

GO ONLINE for a quiz to evaluate what you learned about Properties of Waves.

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VERSIONS OF EVERY LAB

- Open-Ended
- Guided
- Shortened
- Advanced



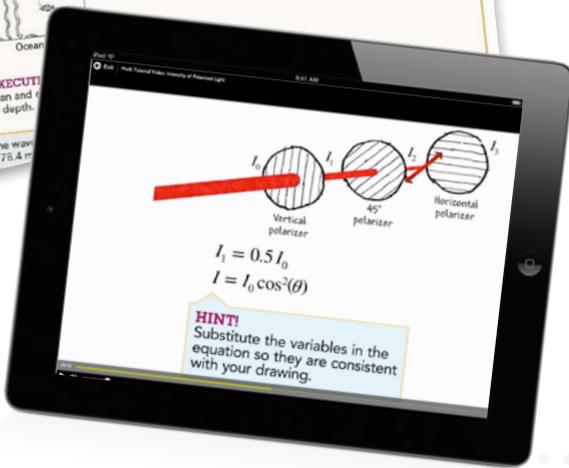
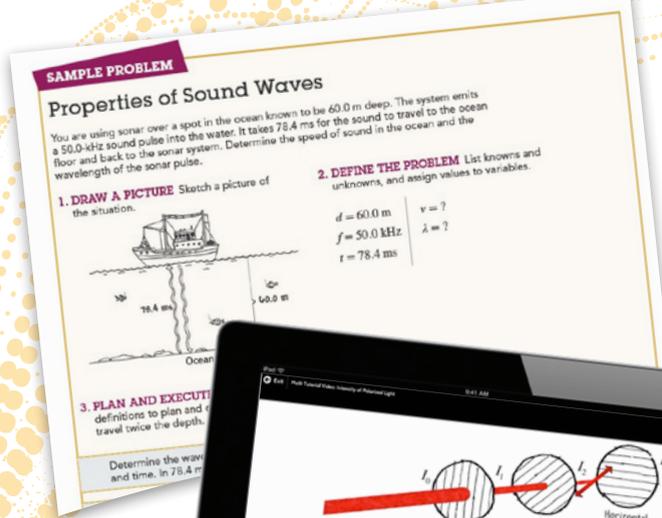
FLINN SCIENTIFIC

Flinn Scientific Partnership

Labs, Engineering Workbenches, Data Set Activities, and Performance-Based Assessments with video support enhance the student experience and encourage your class to do more science!

Personalize Instruction

Make it your own with the Teacher Guide. Personalize and enhance your instructional plan with **Got More Time?** activities. Substitute with **Related Phenomena** when you want to make a change. Storyline and Investigation **Planners** use the 5E model to streamline your prep time.



Build Mathematical Fluency

Stepped-out examples in the **Experience Handbook** break down sample problems for clarity and process guidance, while math tutorial videos reinforce mathematical processes.

The **Physics and Math Skills Workbook** includes four pages of review and practice problems for every learning experience.

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