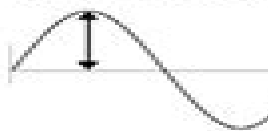
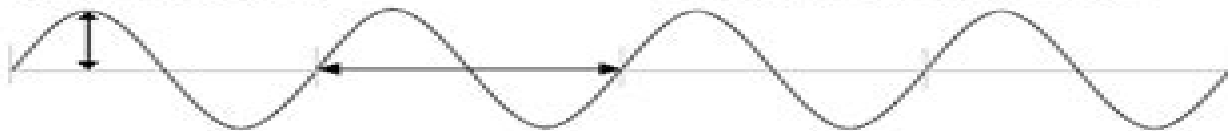


Wave Worksheet

One full wave (cycle)



Wave train – two or more waves



Amplitude – measures the energy of a transverse wave

- measured from the resting position to the top of a crest or the bottom of a trough (see vertical arrow)

Wavelength – length of a single wave cycle (horizontal arrow double sided arrow)

Frequency – # of waves that pass a point in a given amount of time

Speed = wavelength $\times$ frequency

The time from the beginning to the end of the wave train in each situation is 1 second.

Wave 1



- a) How many waves are there in this wave train? 5
 b) Wavelength 4 cm c) Amplitude 2 cm d) frequency 5 Hz e) speed 20 cm/s

Wave 2



- a) How many waves are there in this wave train? 3
 b) Wavelength 10 cm c) Amplitude 1 cm d) frequency 3 Hz e.) speed 30 cm/s

Problems:

- What is the wavelength of a sound wave with a frequency of 50 Hz? The speed of sound is 342 m/s.
 6.84cm
- A sound wave in a steel rail has a frequency of 620 Hz and a wavelength of 10.5 m. What is the speed of sound in steel?
 6.510 m/s

Wave Worksheet 1 Answer Key

James A. Kolb



Wave Worksheet 1 Answer Key:

Alternative Fuels Teacher's Resource Guide CD Saddleback Educational Publishing, 2010-09-01 Designed to work with both differentiated levels of Think Green these 24 page guides were developed in consultation with several state educational standards and contain multiple components Three lesson plans are included These lesson plans are divided into sections vocabulary preview reading the text discussing the meaning word work extending the meaning and critiquing The teacher's guide also includes 11 worksheets 2 vocabulary 1 writing 1 index 2 review and 5 activity sheets Motion: Wave Motion Gr. 5-8 George Graybill, 2015-10-01 This is the chapter slice Wave Motion from the full lesson plan Motion Take the mystery out of motion Our resource gives you everything you need to teach young scientists about motion Students will learn about linear accelerating rotating and oscillating motion and how these relate to everyday life and even the solar system Measuring and graphing motion is easy and the concepts of speed velocity and acceleration are clearly explained Reading passages comprehension questions color mini posters and lots of hands on activities all help teach and reinforce key concepts Vocabulary and language are simplified in our resource to make them accessible to struggling readers Crossword Word Search comprehension quiz and test prep also included All of our content is aligned to your State Standards and are written to Bloom's Taxonomy and STEM initiatives

Energy: Sound Energy and Waves George Graybill, 2013-10-01 This is the chapter slice Sound Energy and Waves from the full lesson plan Energy Unlock the mysteries of energy Energy is more than the ability to do work we present these concepts in a way that makes them more accessible to students and easier to understand The best way to understand energy is to first look at all the different kinds of energy including What Is Energy Mechanical Energy Thermal Sound Energy and Waves as well as Light Energy Our resource provides ready to use information and activities for remedial students using simplified language and vocabulary We also explore other forms of potential energy as well as how energy moves and changes Written to grade and comprised of reading passages student activities and color mini posters our resource can be used effectively for your whole class All of our content meets the Common Core State Standards and are written to Bloom's Taxonomy and STEM initiatives

Educart ICSE Class 10 One-shot Question Bank 2026 Geography (strictly for 2025-26 boards) Sir Tarun Rupani, 2025-07-12 Targeted exam ready preparation for ICSE Geography Class 10 Designed by Sir Tarun Rupani this One shot Question Bank is a comprehensive revision guide for ICSE Class 10 Geography aligned strictly with the latest 2025 26 board syllabus The book offers a quick and effective way to revise chapters understand map work and practice ICSE style questions confidently Key Features Updated as per ICSE 2025 26 Syllabus Complete and focused coverage of all Geography chapters including climate soils industries transport and more One shot Format Each chapter includes quick concept summaries definitions diagrams and important terms for fast recall All Question Types Included Covers short answers structured questions and diagram map based questions Chapterwise PYQs Includes previous year ICSE questions for each chapter to familiarise students with real

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