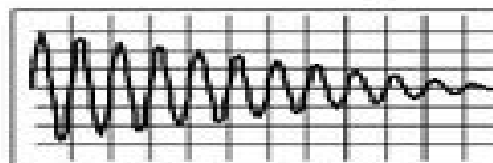


### Damping

No motion can last for ever. A pendulum will eventually stop swinging due to air friction. A wave will eventually lose its energy as well. Friction or the restoring force eventually cause the motion to lose its energy and to die out. This gradual reduction of amplitude we call **damping**.



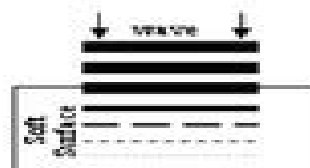
This graph shows the damping of harmonic motion over time until it has stopped (returned to its equilibrium position).

### Boundary Reactions

There are four ways a wave can react depending on the boundary it encounters: **Absorption, Reflection, Refraction, Diffraction**.

#### Soft Boundaries Absorb

**Absorption**—a wave's energy dies out in a soft material (damping). *Example: Telling into a pillow. The soft pillow absorbs the sound.*



Absorption

#### Hard Boundaries Reflect

**Reflection**—a wave bounces off when it hits a hard boundary. *Example: When you yell against a wall, the sound wave reflects off of the wall.*



Reflection

We call sound that is reflected back to us **echoes**. Many animals use **echolocation** to see through dark caves or at night! An animal makes a noise and uses the echo to figure out where an object or prey is located.



Humans use echolocation, too, in **sonar** (submarines using sound waves), **radar** (airports using light waves), and **sonograms** (sound waves to see inside soft parts of the human body).



#### Corners Diffract

**Diffraction**—part of a wave bends around a corner. This is partially how we hear around corners and how some light can be seen around corners. What happens is the corner drags the wave slowing it down and turning it. *Example: talking to someone around a corner.*



Diffraction on

**Light diffracts. PROVE IT:** Put your hand up to your eye. Look between two of your fingers. As you close your fingers together you see "lines" — almost like your skin is "jumping the gap." These dark lines are where two diffracted light waves are canceling each other out to produce darkness. How do they cancel each other out? By **destructive interference**. see back page.

#### Transparent Boundaries Refract

**Refraction**—a wave bends when entering a transparent boundary. *Example: Light going into water bends toward the water. Light also bends going through the lenses of eyeglasses to magnify objects.*



Refraction

### Natural Frequency

All objects have a **natural frequency**—the frequency that they vibrate at when disturbed. Musical instruments easily show natural frequencies, but most other objects have them, too: bridges, buildings, etc.

### Resonance

**Resonance** is the reinforcing of an object's natural frequency so that the amplitude increases quickly. Harmonics show resonance. If you have ever been talking in a bathroom and notice that certain notes are very loud—that's resonance: that loud note is the natural frequency of that room. Resonance is how a soprano can break a glass with her voice.

### Phase

**Phase**—a particular part of a cycle.



In-phase

*In-phase means they are at the same point in their cycles.*

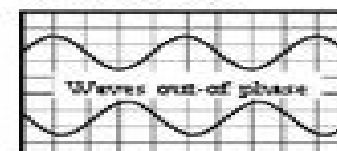


180° out-of-phase

*Out-of-phase means they are at different points in their cycles.*



Waves in-phase



Waves out-of-phase

# Wave Actions Answer Key

**Richard A. Gould**



## Wave Actions Answer Key:

**Geology** Edward P. Ortleb, Richard Cadice, 1986-09-01 Basic study of geology do for students in grades 5 9 ,

**Oceanography (eBook)** Edward P. Ortleb, Richard Cadice, 1991-09-01 This book presents a program of basic studies dealing with the science of oceanography Various characteristics of the oceans are described including features of the oceans life within the oceans and different ways of studying the oceans Each of the twelve teaching units in this book is introduced by a color transparency print books or PowerPoint slide eBooks that emphasizes the basic concept of the unit and presents questions for discussion Reproducible student pages provide reinforcement and follow up activities The teaching guide offers descriptions of the basic concepts to be presented background information suggestions for enrichment activities and a complete answer key *Weaver's Cove LNG Project, Mill River Pipeline* ,2005 [1500 Science Test Questions/Answers](#)

Dennis Arden Hooker, 2025-01-01 1500 Science Test Questions w Keys Answers Statistical Analysis For Science Teachers Upper Elementary to College Dr Hooker researched and developed a book of 1500 Science Test Questions together with the Bloom s Taxonomy Discrimination Index the Key etc The book was funded through the National Science Foundation for teachers of Upper Middle School through College Science Programs 1500 Science Test Questions is an excellent tool for teachers to develop their own tests and for students to study for High School and College proficiency exams *UPSC Geo-Scientist Pre Hydrology/Geology Question Bank Book 1800+ MCQ With Detail Solution* DIWAKAR EDUCATION HUB ,2024-09-24 UPSC Geo Scientist Pre Hydrology Geology Question Bank Book 1800 MCQ With Detail Solution Highlight of Book Topic Wise MCQ with Detail Solution Design by Expert Faculty As Per New Updated Syllabus As Per UPSC Geo Scientist Premils Syllabus [Commercial Fisheries Review](#) ,1953 *Student Study Guide* Peter L. Kresan, Reed

Mencke, Frank Press, Raymond Siever, 2003-09-25 This reconceptualization of the text Understanding Earth reflects the fundamental changes in the field of physical geology over the past several years **GATE Question Bank - Petroleum**

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