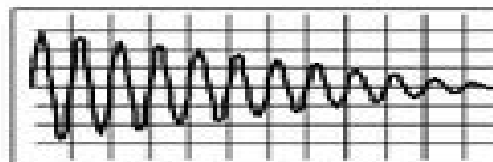


Damping

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**.



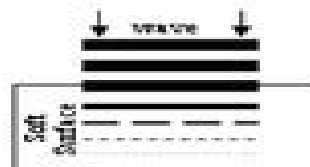
This graph shows the damping of harmonic motion over time until it has stopped (returned to its equilibrium position).

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.



Bats 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).



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.



Diffraction on



Refraction

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.*

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.

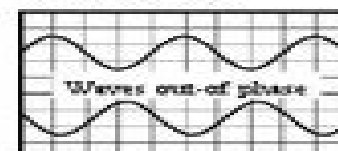


180° out-of-phase

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



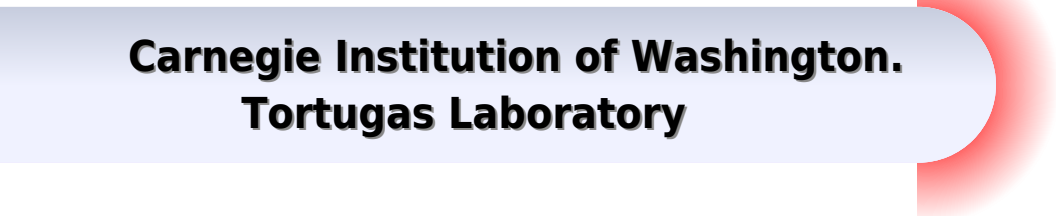
Waves in-phase



Waves out-of-phase

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