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The surface of the  
wave moves up and  
down, which is  
perpendicular to the  
left-to-right direction  
that the wave itself

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moves. But ocean

waves are a little  
more complicated  
than ordinary

transverse waves.

They're really orbital  
progressive waves.

The water molecules  
that make up the  
wave move in circles,  
or orbits, as the wave  
progresses. You can  
visualize this  
movement by thinking

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of the particles near  
the wave's surface.

~~The Physics of Waves  
Waves |~~

~~How Stuff Works~~

Physics of Waves and  
Sound Waves A wave  
is a disturbance in a  
medium that  
transports energy  
without permanently  
transporting matter. In  
our context, we will be

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focusing on sound waves, which can be thought of as the propagation of compression followed by relaxation of particles of a medium. An example of a sound wave is the percussion of a drum.

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Waves, Soundwaves,  
and Shockwaves for~~

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Waves are vibrations that transfer energy from place to place without matter (solid, liquid or gas) being transferred. Think of a Mexican wave in a football crowd - the wave moves around the...

~~Energy transfer and  
waves - Features of~~

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money.

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Waves:~~

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This textbook  
introduces the physics  
of wave phenomena  
in a refreshingly  
approachable way,  
making it ideal for



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first- and second-year  
undergraduate  
students in the  
physical sciences.

Reviews □ This gem of  
a book will enable  
students to appreciate  
the core theme: that  
understanding wave  
motion is fundamental  
to almost every  
contemporary aspect  
of physics.

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~~Introduction to the  
Physics of Waves by  
Tim Freegarde~~

A wave is a disturbance that propagates through a medium. verb, propagate; noun, propagation: refers to the transmission of a disturbance from one location to another. singular, medium; plural, media: refers

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to the intervening substance (s) through which a disturbance is transmitted. Essential property. Waves transfer energy, momentum, and information, but not mass.

~~The Nature of Waves~~  
~~—Summary — The~~  
~~Physics~~  
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Learn about types of waves such as longitudinal and transverse waves as well as the structure of the earth with BBC Bitesize GCSE Physics.

~~Longitudinal and  
transverse waves~~

~~Types of waves  
GCSE ...~~

Waves classed by the

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type of disturbance;  
name disturbance is  
examples; transverse  
waves: perpendicular  
to propagation: light  
and all  
electromagnetic  
waves, gravitational  
waves, matter waves,  
nerve impulses,  
peristalsis, secondary  
seismic waves (S  
waves a.k.a. shear  
waves), locomotion in

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snakes and eels,  
stringed instruments,  
drums: longitudinal  
waves: parallel to  
propagation

~~The Nature of Waves~~

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Different Types of  
Waves in Physics  
With Examples.

Waves transport  
energy without

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transporting matter.

The energy  
transportation is  
carried by a

disturbance, which  
spreads out from a  
source. Basically,  
there are three types  
of waves. Mechanical  
waves,  
electromagnetic  
waves, and matter  
waves. Transverse  
waves and

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Mechanical waves are  
examples of  
mechanical waves.

## ~~Types of Waves In Physics and Their Examples~~

In transverse waves,  
the vibrations are at  
right angles to the  
direction of wave  
travel. Mechanical  
waves cause  
oscillations of



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particles in a solid,  
liquid or gas and must  
have a medium to  
travel...

~~Types of waves~~

~~Properties of waves~~

~~AQA GCSE Physics~~

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Bajaj The Media and  
the People , Charlene  
J. Brown, Trevor R.

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Brown, William L.

Rivers, Jan 1, 1978,  
Social Science, 472

pages Most people know the story of Balto, the world famous dog who led his dogsled team through a blizzard to deliver a

~~The Physics Of~~

~~Waves And~~

~~Oscillations, 1988, N.~~

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~~K. Bajaj...~~

Everything waves.

There are familiar, everyday sorts of waves in water, ropes and springs. There are less visible but equally pervasive sound waves and electromagnetic waves. Even more important, though only touched on in this book, is the wave

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phenomenon of  
quantum mechanics,  
built into the fabric of  
our space and time.

~~THE PHYSICS OF  
WAVES~~ Version date

~~February 15, 2015~~

A crystal lattice of  
strontium ruthenate  
responding to various  
sound waves as the  
material cools through  
its superconducting

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transition. Courtesy:

Cornell University.

Superconducting  
materials are

traditionally classed  
into two types: s-wave  
and d-wave. A third  
type, p-wave, has  
long been predicted.

~~g-wave~~

~~superconductor~~

~~comes into view~~ □

~~Physics World~~

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In physics a wave can be thought of as a disturbance or oscillation that travels through space-time, accompanied by a transfer of energy.

Wave motion transfers energy from one point to another, often with no permanent displacement of the particles of the

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medium — that is, with  
little or no associated  
mass transport.

~~Waves | Boundless  
Physics~~

The Physics  
Classroom Tutorial  
presents physics  
concepts and  
principles in an easy-  
to-understand  
language. Conceptual  
ideas develop



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logically and sequentially, ultimately leading into the mathematics of the topics. Each lesson includes informative graphics, occasional animations and videos, and Check Your Understanding sections that allow the user to practice what is taught.

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~~Physics Tutorial:  
Vibrations and Waves  
Spreading~~

Depolarizations. In physics, mathematics, and related fields, a wave is a propagating dynamic disturbance (change from equilibrium) of one or more quantities, sometimes as described by a wave

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equation. In physical waves, at least two field quantities in the wave medium are involved.

## ~~Wave - Wikipedia~~

In classical physics diffraction arises because of the way in which waves propagate; this is described by the Huygens-Fresnel

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Waves And  
principle and the

principle of  
superposition of  
waves. The

propagation of a wave  
can be visualized by  
considering every  
particle of the  
transmitted medium  
on a wavefront as a  
point source for a  
secondary spherical  
wave. The wave  
displacement at any

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subsequent point is ...  
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