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down, which is perpendicular to the left-to-right direction that the wave itself 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

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NK Bajaj progresses. You can visualize this movement by thinking of the particles near the wave's surface.

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wave is a disturbance in a medium

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that transports energy without permanently transporting matter. In our context, we will be 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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from one location to another. singular, medium; plural, media: refers to the intervening substance (s) through which a disturbance is transmitted. Essential property. Waves transfer energy, momentum, and information, but not mass.

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ruthenate responding to various sound waves as the material cools through its superconducting 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.

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