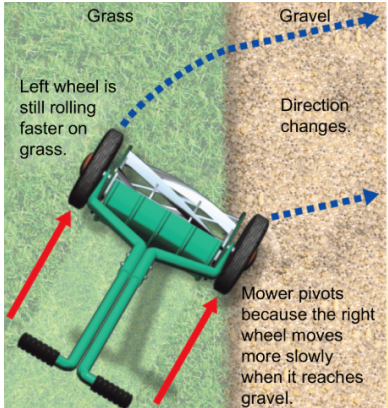


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17.3 Behavior of Waves

Key Ideas	Notes
How does reflection change a wave?	
	<i>Reflection</i>
What causes the refraction of a wave when it enters a new medium?	
	<i>Refraction</i>
	 A lawn mower turns when it is pushed at an angle from the grass onto the gravel. The wheel on the gravel slows down, but the other wheel is still moving at a faster speed on the grass.

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As an ocean wave approaches the shore at an angle, the wave bends, or refracts, because one side of each wave front slows down before the other side does.

As an ocean wave approaches the shore at an angle, the wave bends, or refracts, because one side of each wave front slows down before the other side does.

An ocean wave refracts as it flows into a shallow area.

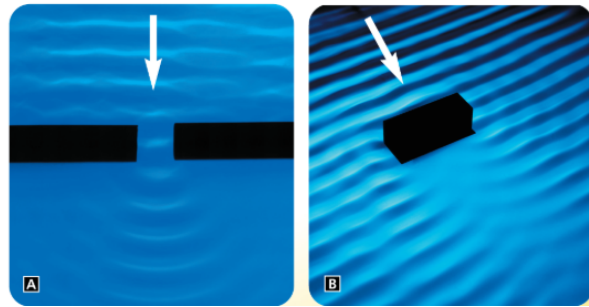
What **factors** affect the amount of diffraction of a wave?

Diffraction

Water waves spread out as they pass through a narrow opening.

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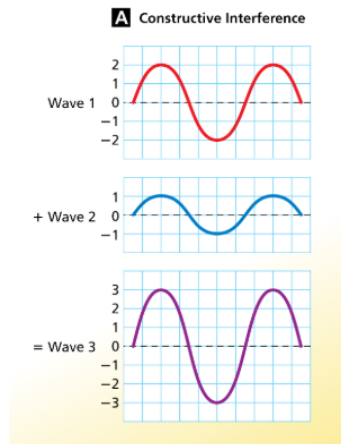


What are two types of interference?

Interference

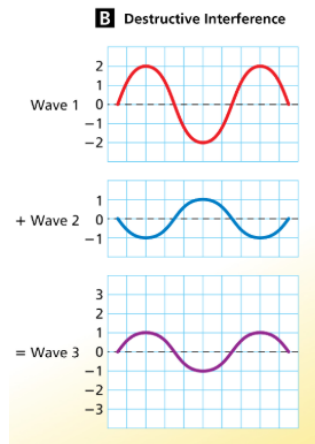
Constructive interference

Destructive interference



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What **wavelengths** will produce a standing wave?

standing wave

Interference occurs as the incoming waves pass through the reflected waves.

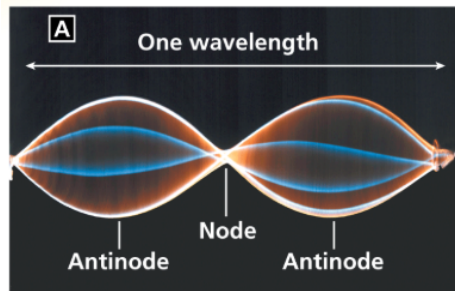
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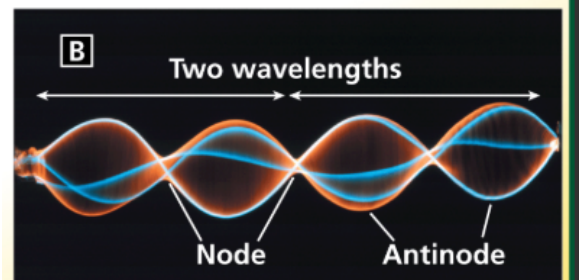
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Standing Waves



A.



B.