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GENIUSCHALLENGE

WAVERROPERTIES
1. What is transferred from place to place by waves?
2. True or false: when placed in water, a ball moves from one place to another with the waves.
False
3. What is this called? Wavelength
4. What is this called? Ampli tude
5. True or false: longitudinal waves move up and down.
6. Which of these is true of sound waves?
a. they only work in air
b. move in all directions
c. can be heard in space
7. What is it called when dolphins communicate underwater through sound waves? Echologodian
8. Fill in the blank using the word(s) increases, decreases, or stays the same.
When energy increases, amplitude
9. Fill in the blank using the word transverse or longitudinal.
Water waves are waves because the wave moves up and down.
10. What moves the pieces of salt on top of the speaker when the music is playing? Vibrations of air particles
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Name			

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Own Definition	Definition
Amplitude:	Amplitude: Height of a transverse
N 50000 - 50000 - 500	wave from the center of the
	Crest or trough to the resting position
Wavelength:	Wavelength:
	Distance between crest (or trough)
	of one wave and the crest (or trough
	of the next wave
Sound Wave:	Sound Wave:
	Vibrations of air particles that
	transmit sound.
)
Transverse Wave:	Transverse Wave:
	when a wave moves up and
	down (perpendicular)
	Ex: Water, light, electromagnetic
Longitudinal Wave:	Longitudinal Wave:
	when a wave moves forward and
	backward (parallel).
	Ex. Sound, earthquakes
Wave Peak (Crest):	Wave Peak (Crest):
	Highest part of a transverse wave
	Trough:
	Lowest part of a transverse wave
	Frequency:
a de la companya de	Number of waves passing a given point each second
	given point each second