Sound and Music Worksheet

Match both the science/engineering terms on the left and the music terms on the right with the definitions in the middle. You will use some of the definitions twice.

Low Frequency	A. Waves in the air caused by vibrations	Low note
	B. Waves that move in one direction,	
Longitudinal Waves	but "wave" in another direction	Pitch
•	C. Waves that move and "wave"	
Frequency	in the same direction	Dynamic level
	D. The distance between one wave	
Wich Amplitude		Coft mate
High Amplitude	and the next wave	Soft note
	E. How often a single wave goes by	
White Noise	F. How big the difference is between	Music
	the high points and the low points	
Amplitude	of the waves	High note
_	G. Big difference between highs and lows	
Sound Waves	H. Small difference between highs and lows	Sounds
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Ctonding Women	I. Lots of short waves	T 4 4
Standing Waves	J. Very few long waves	Loud note
	K. Waves that can keep vibrating in or on	
Transverse Waves	something for a long time	
	because they "fit"	
Wavelength	L. A sound that is a mixture of all wavelength	าร
	M. Sounds that are organized by people	
High Frequency	w. Sources that are organized by people	
mgn rrequency		
Low Amplitude		
Give short answers:		
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1. Can sound travel through	empty space? Why or why not?	
2. How are sound waves like	e water waves? How are they not like water wav	ves?
3. Name 2 ways a player of a	a musical instrument can change the sound of	the instrument.
4. How can an instrument w	vith only 4 strings get more than 4 different pito	ches?

5. When a trumpet player pushes down a valve, she opens an extra loop of tubing.

What does this do to the trumpet? To the sound?