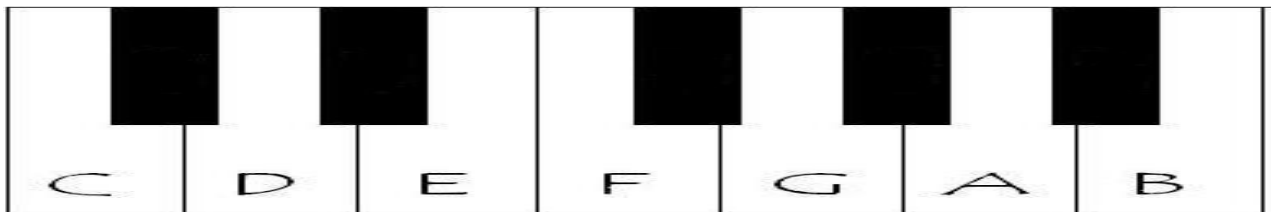


Mary Had a Little Lamb Skill Builder

1. This is a list of frequencies and wavelengths for the notes C through B on the keyboard. The values have been scrambled. Under the keyboard, write the correct frequency and wavelength for each note

Frequencies (Hz)	Wavelength (m)
329	0.868
391	0.773
261	1.032
493	1.301
440	0.974
349	0.689
293	1.159



Frequency (Hz)							
Wavelength (m)							

Describe the relationship between the frequency and the pitch for the notes:

2. As the frequency of a sound wave increases while it travels through air, the speed of the wave
 - A. Increases
 - B. Decreases
 - C. Stays the same

3. As the wavelength of a sound wave increases while it travels through air, the speed of the wave
 - A. Increases
 - B. Decreases
 - C. Stays the same

4. As the amplitude (loudness) of a sound wave increases while it travels through air, the speed of the wave
 - A. Increases
 - B. Decreases
 - C. Stays the same

5. Which of the following is NOT a mechanical wave?
 - A. X – Ray
 - B. Seismic
 - C. Sound
 - D. Tsunami

6. Which of the following produced the highest pitch during "Trashin' the Camp"?
 - A. The clothesline
 - B. The wash tubs
 - C. The glass chimney of the lamp
 - D. The drawers of the dresser

7. Which of the following produced the lowest pitch during "Trashin' the Camp"?
 - A. The clothesline
 - B. The typewriter bell
 - C. The teapot
 - D. The silverware

8. During Mary Had A Little Lamb Lab, adding water to a wine glass
 - A. Raised the pitch
 - B. Lowered the pitch
 - C. Did not change the pitch

9. During Mary Had A Little Lamb Lab, adding water to a wine glass
 - A. Slowed the vibrations of the glass
 - B. Sped up the vibrations of the glass
 - C. Did not change the speed of the vibrations

10. During Mary Had A Little Lamb Lab, adding water to a wine glass
 - A. Lowered the frequency of the waves
 - B. Raised the frequency of the waves
 - C. Did not change the frequency of the waves

11. Below are the notes and lyrics for *Mary Had A Little Lamb*. Which word combination matches with the note that has the lowest frequency?

- A. a / that
- B. fleece / lamb
- C. snow / go
- D. white / sure

Ma - ry had a lit - tle lamb, lit - tle lamb, lit - tle lamb.
 Ev - 'ry - where that Ma - ry went, Ma - ry went, Ma - ry went,

Ma - ry had a lit - tle lamb, its fleece was white as snow.
 Ev - 'ry - where that Ma - ry went, the lamb was sure to go.

12. Which of the waves has the highest frequency?

