QUIZEN – Sound (9P05)

Learning Level 1	*Learning Level 2*	*Learning Level 3*
Q - Remembering (knowledge-based questions) U - Understanding (comprehension-based questions)	I - Applying (application-based questions) Z - Analyzing (analysis-based questions)	*E - Evaluating (evaluation-based questions)* *N - Creating (creation-based questions)*

Learning Level 1

1. What is the speed of sound in air at room temperature?
2. Define echo and reverberation.
3. What is the unit of measurement for speed of sound?
4. What is the speed of sound in water?
5. State the relation between wavelength, frequency, and speed of sound.

Learning Level 2

6. A sound wave travels at a speed of 340 m/s. If its wavelength is 0.85 m, what is its frequency?
7. A sound wave travels at a speed of 340 m/s. If its frequency is 510 Hz, what is its wavelength?
8. A person standing in front of a tall building hears an echo after 2 seconds. If the speed of sound is 340 m/s, how far away is the building?
9. Explain why we hear multiple echoes in a closed room but not in an open field.
10. A sound wave travels through a medium at a speed of 400 m/s. If its frequency is 1000 Hz, what is its wavelength?

Learning Level 3

11. Evaluate the statement: "The speed of sound is the same in all mediums."
12. Create a scenario where you would expect to hear an echo and another scenario where you would not.
13. Compare and contrast the terms "echo" and "reverberation."
14. Evaluate the statement: "The wavelength of a sound wave depends on the loudness of the sound."
15. Create a real-life scenario where the reflection of sound can be used in a beneficial way.