Earthquake Rescue Plan Study Guide

Define the following vocabulary words (Refer to Pitch and Frequency vocab station)

-Pitch (glass bottle lab) -Sound Waves -crest

-Mechanical waves (Fundamentals of Waves) -digital signal -wavelength

-Electromagnetic waves (fundamentals of Waves) -Analog signal -amplitude

-Frequency (Fundamentals of Waves -medium

Answer the following questions. -trough

1. What kind of vibrations makes a low and high pitched sound? (Glass bottle lab)

2. When you put more water into the bottle, there is \_\_\_\_\_\_ air to vibrate. This means the air will vibrate faster and the sound is \_\_\_\_

3. What causes ringing in the ears?

\_\_\_\_\_. (Glass bottle lab)

4. How is sound created?

5. Draw a picture of a longitudinal wave.

6. Draw a picture of a transvers wave.

7. Describe the particle movement in a longitudinal wave.

8. Describe the particle movement in a transverse wave.

9. What medium do sounds travel the fastest through?

Claim:

Lab evidence:

Research evidence:

Reasoning:

Include your sources.

\*\* You will have to identify frequency (high and low), amplitude (high and low) and wavelength in a picture\*\*