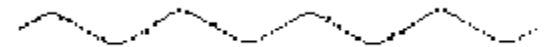
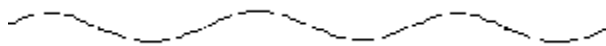


Compare the frequency and amplitude of sound waves.



PITCH

INTENSITY



Compare the frequency and amplitude of sound waves.



*The squeak of a mouse*

Demonstrate pitch (high vs. low sounds with the following items: 1) Your voice, 2) musical instrument 3) rubber band (the tighter you pull it, the higher the pitch, 4) similar glasses filled with different amounts of water (the more water, the lower the pitch. Discuss pitch as frequency of sound waves.



*A loud bang*

## PITCH

Measured in **Hertz**

### FREQUENCY

Number of waves per second

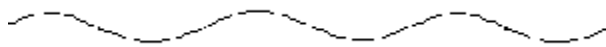


## INTENSITY

Measured in **Decibels**

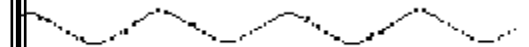
### AMPLITUDE

Strength of each wave



*The bellow of a cow*

Using the same objects, demonstrate intensity as the loudness or softness of sound. Discuss amplitude of sound waves.



*A soft whsiper*

Strike a tuning fork and place it by the ear. Repeat, placing it on the forehead. Sound waves travel through different media.

## Information Pieces

Measured in **Hertz**

LE-4

### **FREQUENCY**

Number of waves per second

LE-4

Measured in **Decibels**

LE-4

### **AMPLITUDE**

Strength of each wave

LE-4

*A soft whisper*

LE-4

*A loud bang*

LE-4

*The bellow of a cow*

LE-4

*The squeak of a mouse*

LE-4