

Note Taking Guide - Episode 1203

differences between music and noise:

noise -

music -

Types of Musical Instruments

Percussion instrument:

-
-
- to raise the pitch -
- examples-

Stringed instrument:

-
-
- to raise pitch -
 - 1.
 - 2.
 - 3.
 - 4.
- examples-

Wind instrument:

-
-
- to raise pitch -
- examples-

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Quality of Sound:

Fundamental mode-

-
-

Overtone-

-
-

Octave-

Harmonics-

Sound quality (timbre)-

-
-

	Harmonic	f= _____ x fundamental
fundamental mode		
1 st overtone		
2 nd overtone		
3 rd overtone		

Ex Problem: Calculate the frequency of the 2nd overtone of a 200 Hz fundamental.

**To calculate frequencies, use the _____.

Problem Set #1 (on back)

Sound Wave Interactions:

Reflection-

Refraction-

Interference-