

## 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 <sup>st</sup> overtone		
2 <sup>nd</sup> overtone		
3 <sup>rd</sup> overtone		

Ex Problem: Calculate the frequency of the 2<sup>nd</sup> overtone of a 200 Hz fundamental.

\*\*To calculate frequencies, use the \_\_\_\_\_.

Problem Set #1 (on back)

**Sound Wave Interactions:**

Reflection-

Refraction-

Interference-