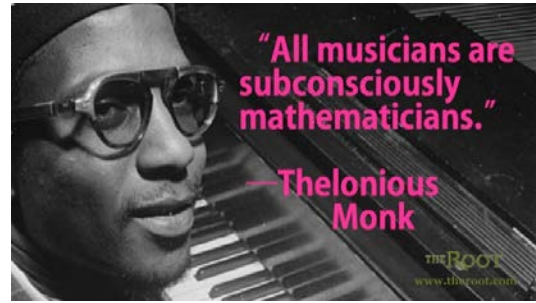


## 6.2 Math and Music

### *Vocabulary Research*

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You have heard people talk about math. You have heard people talk about music. Have you ever heard people talk about math and music at the same time?

1. How are math and music related? Describe any connections of which you are aware.
2. Review the terms and describe how familiar you *currently* are with the vocabulary term (Yes, Seen It, Heard It, or No Clue).

Term	Know It?	What it means (in music)
a. amplitude		
b. consonance		
c. crest		
d. decibel		
e. dissonance		
f. dynamics		
g. frequency		
h. harmony		
i. hertz		
j. octave		
k. period		
l. pitch		
m. wavelength		

3. Research the musical definitions of the words (dictionary, web, phone app) and complete the right hand column in the table above.

## II. Music and Math

After finding the mathematical definitions, choose 5 musical vocabulary words to research further. For each word, write a few sentences about what that word means in mathematics, and how the musical definition relates to the mathematical definition.

1. Word:

a. Mathematical Definition:

b. How the math relates to the music:

2. Word:

a. Mathematical Definition:

b. How the math relates to the music:

3. Word:

a. Mathematical Definition:

b. How the math relates to the music:

4. Word:
  - a. Mathematical Definition:
  
  
  
  
  
  
  
  
  
  
  - b. How the math relates to the music:

5. Word:
  - a. Mathematical Definition:
  
  
  
  
  
  
  
  
  
  
  - b. How the math relates to the music:

### III. Extra Credit

1. Research and summarize the connections between mathematics and music made by Pythagoras. (Yes, the right triangle guy!)