Name	Due Date: February 10, 2016
Mairie	Due Date. I editially 10, 2010

Sound Performance Task

Every student in Mrs. Clark's 4th grade Science class will design and make a musical instrument as their performance task for our Term 4 Science Unit on Light and Sound. Students are required to do the following:

- 1. Get ideas for your instrument
 - From books at the public or school library
 - The Virtual Museum of Music Inventions http://www.musicinventions.org
 - http://students.ed.uiuc.edu/langellr/activity1.html
 - http://homeschooling.gomilpitas.com/explore/homemademusic.htm
 - http://www.philtulga.com/HomemadeMusic.html
 - http://www.creative-music.org/tag/homemade-instruments/
- 2. Make your instrument at home. You may ask your parents or siblings for assistance, but I want the work to be your own. Work that is not your own will not be accepted!
- 3. Practice playing your instrument. Can you improve the sound?
- 4. Decorate and name your instrument.
- 5. Write a five paragraph paper about your instrument. Be sure to use these words: pitch and volume.
- 6. Demonstrate your instrument to the class. Be able to explain how it was made and how it produces sound.

Essay Assignments Requirements

Write an introduction to your musical instrument. Include the following:

The name of your instrumentHow you got the idea for making itThe instrument family to which it belongs (string, percussion, woodwind, brass)Other interesting details, for example: describe what it looks and sounds like. Use the words "pitch" and "volume".

Paragraph Two - Materials

Write about the materials you used for your instrument. Explain where you found the materials.

Paragraph Three - Procedure

Write about how you made your instrument. Explain how your parents, siblings, or other adults helped you. Describe the parts of the instrument that you made yourself. Write about problems that you had in making the instrument and how you solved them.

Paragraph Four - Playing Your Instrument

Explain how to play your instrument. Explain how to change the "volume" or "pitch" of your instrument. If you can play your instrument more than one way, tell how and describe how the sound changes.

Paragraph Five - Conclusion

Write about your reaction to this project. Write about the things you liked about making a musical instrument.

Write about what you learned while you were making your instrument.

Sound Performance Task Rubric

Science GPS: S4P2

Students will demonstrate how sound is produced by vibrating objects and how sound can be varied by changing the rate of vibration.

- a. Investigate how sound is produced.
 b. Recognize the conditions that cause pitch to vary.
- Maestro **Professional Amateur Needs Practice** (Meets Standard) (Exceeds) (Approaching) (Below standard) Instrument shows some effort in Instrument is Instrument is well Instrument is "slapped together" construction and fragile and will not constructed and decoration. It is with pieces missing **Quality of** nicely decorated. It stand up to being or falling off. reasonably sturdy is sturdy, neat, and played more than Construction There may be a and neat and will once. There is little will stand up to total lack of stand up to being repeated playing. to no decoration. played more than decoration. once. Instrument Instrument cannot demonstrates Instrument changes of pitch demonstrates demonstrate any Instrument does (high & low) and/or changes in pitch changes of pitch or **Quality of Sound** not produce any volume. Its sound is volume (loud & and/or volume. It noticeable sound. soft). It produces a produces a clearlyweak and cannot sound of distinctive heard sound. be heard clearly. and clear quality. Without Without With prompting. the student can tell With prompting. prompting, the prompting, the student can tell student can tell how the the student is how the how the unable to discuss instrument is made instrument is made instrument is made and how it the instrument. Demonstration and how it Student does not and how it produces sound. produces sound, produces sound. Student uses the use the terms terms "pitch" and correctly using the correctly using only "pitch" or one term "pitch" or terms "pitch" and "volume" "volume". "volume". "volume". incorrectly. Student includes all Student includes Student is missing Student is missing information and most of the important info but important info and Essay uses terms information using uses terms does not use terms correctly. terms correctly. correctly. correctly.