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Arts Scavenger Hunt

Endeavor STEM Teacher Leadership Certificate Program

In the past I've done a short unit on using Chrome Music Lab for students to explore different aspects of music and sound, culminating in using Song Maker to create an original composition. This was in a Computer and Technology class and focused solely on the ISTE standards. I based the activity on a free lesson plan from Midnight Music (can be found at <http://teachingwithorff.com/wp-content/uploads/2016/04/Lesson-Plan-Chrome-Music-Lab-Rhythm-handout.pdf> )

I will be incorporating both the Arts standards and the NGSS Standards this year. I would like to make this more science-based, and start with an exploration of sound as a phenomena: how is sound made? how do we hear sound? (If time allows, I would like to add a maker element, and have students create their own musical instruments)

**Engage** - strike a tuning fork, ask students what they notice: what they hear, what they see.

**Materials:**

- Tuning Fork
- Chromebooks & Headphones
- Website: Chrome Music Lab: Oscillators
- <https://musiclab.chromeexperiments.com/Oscillators/>

- Website: Chrome Music Lab: Rhythm  
<https://musiclab.chromeexperiments.com/Rhythm/>
- (musical instruments for children, if I can borrow a set from the State Library Service Center)

**STABDARDS:**

**Music Anchor Standard 1:** Generate and conceptualize artistic ideas and work.

Enduring understanding: the creative ideas, concepts, and feelings that influence musicians' work emerge from a variety of sources. Essential question: how do musicians generate creative ideas

**Music - 1st Grade (MU: Cr 1.1.1):**

With limited guidance, create musical ideas (such as answering amusical question) for a specific purpose.

With limited guidance, generate musical ideas in multiple tonalities (such as major and minor) and meters such as duple and triple

**ISTE Standard 6: Creative Communicator**

6A: Students choose the appropriate platforms and tools for meeting the desired objectives of their creation or communication.

**NGSS:**

1-PS4-1. Plan and conduct investigations to provide evidence that vibrating materials can make sound and that sound can make materials vibrate.

[Clarification Statement: Examples of vibrating materials that make sound could include tuning forks and plucking a stretched string. Examples of how sound can make matter vibrate could include holding a piece of paper near a speaker making sound and holding an object near a vibrating tuning fork.]