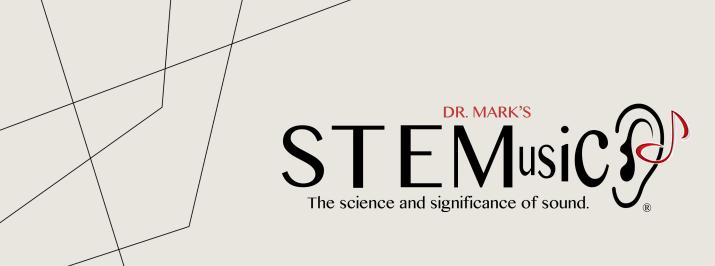


# STEMUSIC The science and significance of sound.

## EXPLORATIONS IN SOUND FOR TWEENS AND TEENS.

Experiences that support mathematical and scientific thinking.

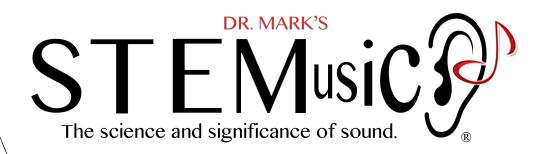


### **OBJECTIVE**

To reconnect adolescents' cognitive development to kinesthetic experience through mechanical manipulation of sound waves.

### NATIONAL STANDARDS IN MATH

Grade 6	Grade 7	Grade 8
Ratio and Proportional Relations  Dependent and Independent  Variables	Analyze proportional relations Random Sampling	Proportional relations, lines, and linear equations.



## **SCIENCE**

- Dependent Variables
- Independent Variables
- Measurement

### Aerophone Build \_\_\_\_\_

Ratio, measurement, collecting data, proportion, graphing data, expressing relations mathematically, & symbolizing the music created.

Music Puzzles

Perseverance, persistence, ratio, attention to detail, proportion, assembling music from its parts to create a new whole.

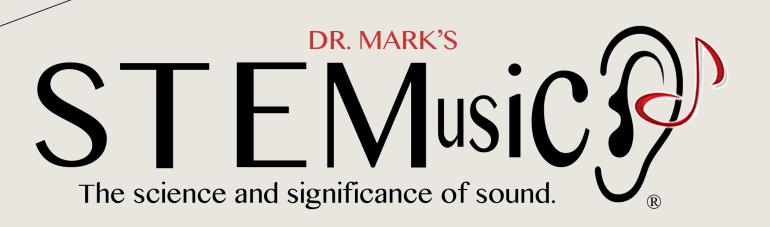
**Puzzle Permutations** 

Scientific method, collecting data, sampling, creating permutations of a well-known song, asking questions, data analysis, and reporting findings.

Under development

- Gearhead Music
- Boomwhacker® Manipulations
- Musical Saws





SUMMER TRAINING OPPORTUNITIES

BE A KID AGAIN,

AND PLAY, EXPLORE, DISCOVER, EXPERIMENT, AND CREATE WITH SOUND.

