

Melodic Math

Bluff School

click below to view
the movie

Melodic Math Project Resources

Equipment used:

Purchased: 2 laptops, 2 headphone sets, 2 microphones, 5 port internet connector, various software to reinforce math and music lessons, materials to build the panpipes or tube drums, smartmusic subscription.

Already in the classrooms: digital camera, card reader, internet access,

Project resources:

Building the instruments: purchased the materials from Home Depot and had my husband pre-cut the tube lengths prior to building them. We had originally planned to have the students measure and cut the PVC pipe but discovered it would be too time-consuming to have them cut the pipe with a hand saw and that an electric chop saw would not be safe. The cut pipe was mixed in a box and the students still had to find and measure the 5 pieces that they would need for their instrument. We also pre-cut the 2" circles.

Internet Site for the music lesson plans: www.philtulga.com

Smartmusic available on web

Melodic Math Assessment Rubrics

AM:R&N:4:1 Read and notate music

Students will be able to read and notate music using whole, half, quarter and eighth notes and rests in 2/2, 3/4, and 4/4 meter signatures.

AM:C&a:4:1 Compose and arrange music within specified guidelines

Students will create and arrange short songs and instrumental pieces within specified guidelines.

AM:R:4:1 Understanding relationships among music, the other arts, and disciplines outside the arts

Students will identify ways in which the principles and subject matter of other disciplines are related to those of music.

M:N&O:5:1 Demonstrates conceptual understanding of rational numbers with respect to positive fraction numbers using models, explanations, or other representations.

M:CCR:5:3 Students will recognize, explore, and develop mathematical connections and be able to: see mathematics as an integrated whole. Recognize relationships among different topics in mathematics. Recognize and use mathematics in other curriculum areas and in their daily lives