



**International Center
for Leadership
in Education**



Gold Seal Lesson:

Copernicus Education Gateway

Author(s): Doris Quick			Lesson Title: Making Music			
Grade Span			ICLE Application Model			
K-4 X	5-8	9-12	A	B X	C	D

Instructional Focus:

Basic Concepts and Knowledge

Students develop an understanding of scientific concepts using facts, theories, principles, and models.

Science as Inquiry

Students demonstrate knowledge and skills necessary to perform scientific inquiry.

Performance Task

For this task you are to construct an instrument, using familiar materials found around your home. You are not to use any parts from an existing instrument. You should be able to "play" your instrument and make a variety of notes on it. Be creative! Your instrument should show that you have an understanding of the principles of sound, including pitch, vibrations, frequency, and tonal quality .

After all students have made their instruments, you will work in groups of four to six to play "Mary Had a Little Lamb" and another song of your choice. After spending some time rehearsing, we will present a concert for other children and teachers in the school.

Note to the teacher: You might want to invite family members and friends to the concert. You may also want to video-tape the performance and/or take pictures.

ICLE Essential Skills

Know the characteristics and phenomena of sound waves and light waves. S90

Plan and apply real or hypothetical models and constructions to facilitate investigation and learning and the solution to practical problems. *(Not Ranked)*

Scoring Guide:

4 The instrument made by the student reflects a good understanding of the principles of sound. It is a workable instrument that can produce several different notes. The student works well in a small group to prepare for the concert. The audience can, from the instrumental music played, recognize the familiar tunes.

3 The instrument made by the student reflects only a partial understanding of the principles of sound. It can produce only three or four different notes, causing the student to have some difficulties when playing the instrument. The student makes only limited contribution to the group when preparing for the concert, and his/her songs are not fully recognizable by the audience.

2 The instrument made by the student reflects minimum understanding of the principles of sound. It cannot produce enough notes to play a recognizable song. The student has difficulty playing the instrument and made little contribution to the group in preparing for the concert.

1 The student is unable to make an instrument which indicates that he/she has no understanding of the principles of sound. The student had a detrimental effect on the operation of the group.

Keywords

English Language Arts	Mathematics	Science
Reading	Algebra	Earth Science
Writing	Geometry	Life Science
Communications	Statistics	Chemistry
Literature	Calculus	Physics <i>Sound</i> <i>Music</i> <i>Scientific Inquiry</i>
Other	Trigonometry	Other
	Other	