

Music, Math, and Literacy in Elementary School

MATH

Sets, Numbers and Fractions, Symbols, and Algebraic Expressions

- Music Class Is Fun Students are always listening to music outside school
- Music And Math Are Associated Students who learn music are better at math
- Music Gives Math Class Relevance Students don't know they are learning math

Sets

- Logically Related Objects
- Pattern Recognition
- Measures In Music Are Sets
- Patterns Include Strong Beats And Weak Beats
- Ostinatos Repeated Musical Phrases

Numbers and Fractions

- Counting
- Whole Numbers and Fractions
- Counting Beats in Measures
- Counting Intervals in pitches: 3rd, 5th, 7th
- Understanding Fractions: Whole, Half, Quarter, Eighth, and Sixteenth Notes

Symbols

- Recognizing Abstract Symbols
- Understanding Symbol Meaning
- Musical Notation





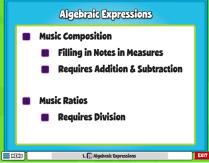




Algebraic Expressions

- Addition and Subtraction
- Multiplication and Division
- Formulas
- Time Signature Beats Per Measure
- Tempo Beats Per Minute
- Frequency Sound Waves Cycles Per Second







LITERACY

Read, Write, Speak, and Listen

- Studies Link Music To Literacy Achievement
- Many ELLs learn English through Music
- Music improves brain development

Reading – Song Lyrics

- Vocabulary Learning New Words
- Phonemic Awareness Identifying Sounds
- Word Recognition Combining Phonemes
- Comprehension Understanding Word Meaning
- Seeing Lyrics Highlighted
- Understanding How Lyrics are Phrased
- Learning New Words

Writing - Composing Song Lyrics and Melody

- Spelling Spelling Words Correctly
- Grammar Forming Verses and Choruses
- Punctuation Using Proper Symbols
- ABC Song Learning Alphabet
- Composing Melodies
- Seeing How Lyrics Are Composed

Speaking - Singing

- Pronunciation Pronouncing Words Correctly
- Completing Thoughts Logical Statements
- Tonal Vowels and Consonants
- Pronouncing Lyrics Correctly
- Understanding Verses and Choruses

<u>Listening – Music</u>

- Hearing Paying Attention
- Comprehension Understanding Message
- Listening to Lyrics to Memorize Them
- Understanding Emotion in Lyrics
- Connecting Lyrics and Melody









