

# Systematic Mathematical thinking reflected in the Semiology of the Musical Language

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**Abstract:** *Music, the art that expresses the sentiments with the help of sounds, the feelings and mental states, is based on the musical sounds produced by the regular vibrations of the elastic bodies. Mathematics, captures quantitatively or structurally all natural phenomena in precise and elegant formulas and is the "golden key" of all experimental sciences. It is an intellectual discipline, which, by the precision of its formulas and expressions, offers balance, rigor and artistic sensitivity to the beauties of this world. The attempt to learn to decipher the semantics of musical language is based on understanding some concepts of rational thinking. Mathematics uses critical thinking and develops analytical and reasoning skills, processes encountered in approaching musical studies, in order to render the music message as accurately as possible. In turn, the thorough process you have to go through to play a musical creation or learn how to play a musical instrument can improve your mathematical thinking*

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