1096-G1-743 **Ronald E. Mickens*** (rmickens@cau.edu), Clark Atlanta University, Box 1744-, Physics Department, Atlanta, GA 30314. *Mathematics as an Emergent Feature of the Physical Universe.*

The elementary aspects of what came to be called "mathematics" were created to aid in the analysis, understanding, and prediction of those features of the physical universe of particular importance for human survival. Thus, mathematics had its genesis as a "help-aid" in exploration of human understanding and control over processes and events in the physical universe. We extend this argument to show that mathematics is not unreasonable effective as applied to the physical sciences; it is doing what it was constructed to do, i.e., function as a language, useful to the formation, analysis, and generalization of physical theories. The validity of this view does not preclude mathematics evolving (at a later time) into a separate discipline. A collection of essays on this subject is R.E. Mickens, (editor), "Mathematics and Science" (World Scientific, London, 1990) (Received September 09, 2013)