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Mathematics: The Root of Computer Engineering

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Abstract: Math like every other field of life, matters for computer science and engineering because it teaches students how to use abstract language, work with algorithms, self-analyze their computational thinking, and accurately model real- world solutions. In the current world, the call to expand access to computer science education in schools is increasing. As the educational community focuses on this challenge, the relationship between math education and computer science is undoubtedly moving into the spotlight. This relationship can be a controversial subject. Part of this debate springs from differing ideas of what constitutes a "strong background in mathematics." For some, it's getting a Ph.D. mathematics. For others, it's being able to solve multistep equations mentally.

Keywords: Abstract Language, Algorithm, Computational Thinking, Multistep Equations

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