Researchers at the University of South Florida have developed online algebra modules in the context of general physics to provide students with exact training needed to make the connection between the concepts of physics and necessary mathematics.

A substantial fraction of students enrolled in general physics classes have a weak or poor background of Algebra and Pre-Calculus. As a result, a majority of student–instructor interaction, as well as peer interaction, is not about the critical thinking required in problem solving, but is about the implementation of basic algebra and pre-calculus skills. This issue affects the overall effective learning of the course.

In order to provide students with exact training needed to achieve the required mathematical proficiency in their high school and college level physics courses, our inventor’s have designed online Algebra modules which not only teach Algebra, but are envisioned as modules that make the students learn to make connection between concepts of physics and the necessary mathematics – the language in which science is written.

Development of these boot camp modules is expected to help reach students who are otherwise lost in simple algebra. Each module will help the students have a better understanding of necessary mathematics needed for completing their general physics courses.

ADVANTAGES:
- Effective and easy to use
- Improved learning and understanding of basic concepts
- Improved retention

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