

STEM APPLICATIONS

Math, Science, and Technology Grades 9-12

If you would like to practice some of the math skills you've learned so far at Arthur L Johnson High School or get ahead during the summer, here are a few websites you can try. The websites below all have free options, some may have additional features that cost money.

(Click on the blue link to navigate to website)

[Flipped Math](#) (Math)

- **Type of learning tools:** Online calculator, interactive problems, I Can Problem Solving Strategy, other varying by course
- **Description:** Flipped Mastery allows students to demonstrate mastery of all concepts and progress at their individual pace. Our students will master all standards in Algebra, Geometry, Algebra 2, Pre Calc, and Calculus

[Wolfram Alpha](#) (Math, Science)

- **Type of learning tools:** Powerful online calculator, random problem generator, step-by-step solution demonstrations.
- **Description:** Wolfram alpha is a powerful tool for students and professionals alike. Learning to use Wolfram alpha will help students in all of their math and science coursework because of the site's ability to calculate complex equations and problems. The site also includes tutorials on how to use the program efficiently as well as tutorials to show how to solve many types of math problems.

[CK12](#) (Math, Science)

- **Type of learning tools:** Animations, readings, discussion forums, downloadable worksheets
- **Description:** The CK-12 Foundation is a California-based [non-profit](#) organization whose stated mission is to reduce the cost of, and increase access to, K-12 education in the United States and worldwide.^[2] CK-12 provides free and fully customizable [K-12 open educational resources aligned](#) to state curriculum standards and tailored to meet student and teacher needs. The foundation's tools are used by 38,000 schools in the US, and additional international schools.^[2]