

math works

$$\cos^{-1} \theta \quad \sqrt{a^2 +}$$
$$\Delta y \quad \partial^2 \Omega$$

About Math Works

Achieve's *Math Works* advocacy kit provides resources that make the case for why all students—regardless of their plans after graduation—should engage in rigorous math course-taking throughout their high school experiences. The *Math Works* materials—ranging from fact sheets, brochures and others—is a resource for policymakers, advocates, educators, parents and students alike that demonstrates the connection between higher-level mathematics course-taking and college access and success, workplace and career readiness, and personal and U.S. competitiveness.

At its core, *Math Works* seeks to answer the age-old question familiar to any mathematics educator: Do I really need to learn this, will it help my future and will I ever use it again? The short answer is yes, yes and yes.

Math Works underscores that all high school graduates—regardless of whether they enroll in college, join the workforce or enter the military—benefit from acquiring a comprehensive knowledge base and skill set in mathematics.

Math Works Materials

- **Fact Sheets:** A series of one-page fact sheets focusing on specific arguments for advanced math course-taking in high school, such as *All Students Need Advanced Math*, *Advanced Math and Career Readiness* and *Advanced Math: Closing the Equity Gap*.
- **Mathematics at Work Brochures:** The Mathematics at Work brochures present case studies drawn from leading industries nationwide – such as Information Technology, Advanced Manufacturing and Civil Engineering Technology – to illustrate the advanced mathematics knowledge and skills embedded in jobs that offer opportunities for advancement and are accessible to high school graduates.
- **Policy Paper:** *The Building Blocks of Success: Higher-Level Math for All Students* synthesizes the current research base on why math is so important to all students, how it serves as a foundation for higher order thinking, improves access and success in college and careers and benefits individuals as well as the U.S. economy.

How to Get Math Works Materials

All materials are available free of charge on our website and are also available in hard copy, along with a custom *Math Works* folder, upon request. Please contact Vernitta Cooper for more information (vcooper@achieve.org).