

# Parent Guide to Grade 8 Standards



MILWAUKEE  
PUBLIC SCHOOLS

## MATHEMATICS

### What should my child learn in Grade 8?

#### Functions

- Define, evaluate, and compare functions.
- Use functions to model relationships between quantities.

#### Number System

- Know that there are numbers that are not rational, and approximate them using rational numbers.

#### Expressions and Equations

- Work with radicals and integer exponents.
- Understand the connections among proportional relationships, lines, and linear equations.
- Analyze and solve linear equations and pairs of simultaneous linear equations.

#### Statistics and Probability

- Investigate patterns of association depending on the data of two variables.

#### Geometry

- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand and apply the Pythagorean Theorem.
- Solve real-world and mathematical problems involving volume of cylinders, cones, and spheres.

#### Mathematical Practice

- Make sense of problems and persevere in solving them.
- Construct viable arguments and critique the reasoning of others.
- Use appropriate tools strategically.
- Attend to precision.

### How Can I Help My Child Learn at Home?



- 1 Link mathematics with daily life:** Include your child in situations that involve mathematics such as a budget, discounts, reading a map, recipes, etc.
- 2 Be positive:** Help your child have a “can do” attitude toward math by praising their efforts.
- 3 Make mathematics fun:** Play math-related games. Solve puzzles and brain teasers with your child.
- 4 Learn about mathematics-related careers:** Research careers with your child, and find out what he or she should be doing now to prepare for these options.
- 5 Have high expectations:** Have a mindset that your child can do complex math and succeed in advanced mathematics.
- 6 Support math homework.**



#### Infinite Campus Parent Portal

*Get real-time updates and alerts right on your phone!*

Get 24-hour access to view your child’s academics, attendance, and resources to support achievement. Go to your child’s school to sign up for an account and bring photo identification. Once registered, access your account online at [mpsmke.com/parentportal](https://mpsmke.com/parentportal).

For more information, contact your child’s teacher, school leader or the MPS Office of Academics at (414) 777-7806 or [mpsmke.com/academics](https://mpsmke.com/academics).

The MPS Ambitious Instruction Plan strengthens core instruction and builds a strong foundation across academic areas with a focus on mastery of **reading**, **writing**, and **mathematics** skills.