

# Parent Guide to Grade 9 Standards



MILWAUKEE  
PUBLIC SCHOOLS

## MATHEMATICS

### What should my child learn in Grade 9?

#### ALGEBRA

##### Seeing Structure in Expressions

- Interpret the parts of an expression.
- Write expressions in equivalent forms to solve problems.

##### Interpreting Categorical and Quantitative Data

- Summarize, represent, and interpret data on two variables.
- Interpret linear representations.

##### Creating Equations

- Create equations that describe numbers or relationships.

##### Reasoning with Equations and Inequalities

- Understand solving equations as a process of reasoning, and explain the reasoning.
- Solve equations and inequalities in one variable.
- Solve systems of equations.
- Represent and solve equations and inequalities graphically.

##### Interpreting Functions

- Understand the concept of a function, and use function notation.
- Interpret functions that arise in applications in terms of the context.

##### Building Functions

- Build a function that models a relationship between two quantities.

##### 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.



### 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).

### 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.**

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.