Midtown Summer Program

9th Grade Math Curriculum

General Information

Daily schedule

- 10 minutes of warm up problems
- 20 minutes of lecture
- 25 minutes of group work

Classroom expectations

- Listen when others speak
- Ask questions when they arise
- Respect and encourage your classmates
- Welcome new problem solving approaches
- Defend your solutions with words and pictures and examples

Syllabus

Week 1

- One and multi-step equations
- Variable expressions (linear)
- Graphing a line in slope-intercept form
- Identifying the slope

Week 2

- Variable expressions (linear and absolute value)
- Graphing a line in slope-intercept form
- Identifying the slope

- Absolute value equalities and inequalities
- Plotting a system of equations on the same graph
- Solving a system of equations

Week 3

- Variable expressions (absolute value and polynomial)
- Plotting a system of linear equations on the same graph
- Solving a system of linear equations
- Graphing simple polynomials
- Identifying zeroes in polynomials
- Factoring polynomials

Week 4

- Solving a system of linear equations
- Consider graphing as functions
- Variable expressions (polynomial)
- Identifying zeroes in polynomials
- Factoring polynomials

Week 5

- Solving a system of linear equations
- Consider graphing as functions
- Variable expressions (polynomial)
- Identifying zeroes in polynomials
- Factoring polynomials

Week 6

- Identifying zeroes in polynomials
- Factoring polynomials
- Completing the square
- Generalized functional operations