

Academic Boot Camp Math Level 1 Syllabus

First Week 10am -12Pm

Monday

Basic algebra:

- Addition, Subtraction, Multiplying
- Division and Factoring
- Word Problems
- Assessment with Multiple-choice questions

Tuesday

Fraction:

- Simplifying
- Equivalent
- Greatest Common Factor (GCF)
- Least Common Multiple (LCM)
- Addition, Subtraction, Multiplication, Division
- Comparing Fractions
- Quiz

Wednesday

Decimals:

- Meaning of Place Numbers
- Estimation
- Converting Fractions to Decimals
- Solving percentages in Word Problems
- Quiz

Thursday

Exponent:

- Solving Exponent Equations
- Integer Exponent laws
- Square Roots & Perfect Squares
- Quiz

Second Week 10am -12pm

Monday

System & Linear:

- Meaning of System
- Solving System with different methods
- Equation of Linear
- Graphing Linear Equations
- Word Problems
- Quiz

Academic Boot Camp Math Level 1 Syllabus (Cont)

Tuesday

Quadratic Equation:

- $ax^2 + bx + c = 0$ (always a not zero)
- Solve equation when $c = 0$
- Solve equation when $b = 0$
- Solve equation when $c = 0$ & $b = 0$
- Solve equation when b and c are not zero
- Solve with factoring
- Solve with perfect square
- Solve with formula

Wednesday

Function:

- Domain
- Polynomial Functions
- Fraction Functions
- Irrational Functions
- Mixed Functions
- Ranges
- Domain & Range on the Graph

Thursday

Geometry:

- Area & Perimeter of Triangles
- Area & Perimeter of Equilaterals
- Area & Circumference of Circles
- Pythagorean Theorem
- Review