Dates: June 2nd to July 3rd (5 weeks) **Split:**

- Monday-Thursday: 75 minute classes
 - 20 lessons (25 hours of instruction) total
- Friday-Saturday: independent homework days
 - 10 structured homework days total

Note:

- This is a bootcamp and not a replacement for school. Therefore, the topics will mostly be explained from a review lens
- Syllabus is subject to change at the instructor's discretion

Week 1 (June 2 - June 5)

- Monday, June 2nd: Linear Equations part 1
 - Evaluating functions
 - Solving equations
 - Solving literal equations
 - Intro to linear equations
 - Understanding slope
 - Identifying slope from equation, graph, and word problems
 - Slope intercept vs. point slope form
- **Tuesday, June 3rd:** Linear Equations part 2
 - Writing linear equations from word problems, tables, and graphs
 - Writing linear equations given a slope and point
 - Systems of linear equations
 - Writing systems of linear equations from word problems
 - Parallel and perpendicular equations
- Wednesday, June 4th: Linear Equations part 3 and Intro to exponential equations
 - Systems of linear equations with unknown constants
 - Linear vs. Exponential Equations
 - Exponential graphs
 - Identifying linear vs. exponential situations
- Thursday, June 5th: Polynomials
 - Intro to polynomials
 - Adding and subtracting polynomials
 - Multiplying polynomials
 - Intro to parabolas
 - Transformations of parabolas
 - Factoring polynomials

Week 2 (June 9 – June 12)

- Monday, June 9th: Solving Quadratics
 - Solving quadratics using factoring
 - Solving quadratics using graphing
 - Solving quadratics using the quadratic formula
 - All about the discriminant
- Tuesday, June 10th: Linear, quadratic, and exponential functions
 - Linear and quadratic systems
 - Quadratic and exponential word problems
 - Writing exponential equations
- Wednesday, June 11th: Exponents and nonlinear equations
 - Properties of exponents
 - Radical and rational exponents
 - Radical equations
 - Rational expressions and equations
 - Absolute Value equations
- Thursday, June 12th: Triangles
 - Transversals
 - Properties of angles
 - Special Right Triangles
 - Similar and Congruent Triangles
 - Pythagorean Theorem
 - Trigonometry

Week 3 (June 16 - June 19)

- Monday, June 16th: Circles
 - Intro to circles
 - Radians and degrees
 - $\circ \quad \text{Arc Length} \\$
 - $\circ \quad \text{Area of circle sectors} \\$
 - $\circ \quad \text{Equations of circles} \\$
 - Area and volume
- Tuesday, June 17th: Problem Solving and Data Analysis part 1
 - Ratios, rates, and proportions
 - Unit Conversion
 - Percentages
 - Center, spread, and shape of distributions
- Wednesday, June 18th: Problem Solving and Data Analysis part 2
 - Data representations
 - Scatterplots
 - Probability
 - Evaluating statistical claims
- Thursday, June 18th: Information and Ideas
 - Command of Evidence: Textual
 - Command of Evidence: Quantitative
 - Central Ideas and Details
 - Inferences

Week 4 (June 23 - June 26)

- Monday, June 23th: Craft and Structure
 - Words in Context
 - Text Structure and Purpose
 - Cross-text Connections
- Tuesday, June 24th: Expression of Ideas
 - Transitions
 - Rhetorical Synthesis
 - Form, Structure, and Sense
- Wednesday, June 25th: Grammar part 1
 - Subject-verb agreement
 - Pronoun-antecedent agreement
 - Plurals and possessives
 - $\circ \quad \text{Verb forms} \quad$
 - Subject modifier placement
- Thursday, June 26th: Grammar part 2
 - Boundaries: Linking Clauses
 - Boundaries: Supplements
 - Boundaries: Punctuation

Week 5 (June 30 - July 3)

- Monday, June 30th: SAT Practice
 - Digital SAT 7 Math module 1 live walkthrough
- Tuesday, July 1st: SAT Practice
 - Digital SAT 7 Math module 2 live walkthrough
- Wednesday, July 2nd: SAT Practice
 - Digital SAT 7 Reading module 1 live walkthrough
- Thursday, July 3rd: SAT Practice
 - Digital SAT 7 Reading module 2 live walkthrough