



# PINNACLE ACADEMY After School Learning Center

Give your child the tools to succeed!

Math Competition Classes - GT Test Prep - SAT Test Prep - School Advancement

"Today's Pupil is Tomorrow's Scholar"

Schedule a Diagnostic Test!  
Call Now: (703) 537-0355

## Intensive Courses, Limited Seats Available [Click for Details](#)

		
<p>Competition Date <b>Nov 13, 2018</b></p> <p>Intensive 8 weeks Math Counts/AMC 8 (5th to 9th Graders) <b>COURSE DATES</b> <b>SEPT 29 - NOV 10</b> <b>8 WEEKS</b></p>	<p>Competition Date <b>Feb 7, 2019</b> <b>Feb 13, 2019</b></p> <p>Intensive 16 weeks AMC 10/12 (6th to 11th Graders) <b>COURSE DATES</b> <b>OCT 8 - FEB 9</b> <b>16 WEEKS</b></p>	<p>Competition Date <b>March 13, 2019</b> <b>March 21, 2019</b></p> <p>Intensive 20 weeks AIME (6th to 11th Graders) <b>COURSE DATES</b> <b>OCT 6 - MARCH 20</b> <b>20 WEEKS</b></p>

**REGISTER**

# Pre K - 3th Grade

## Pre K - 3th Grade

### Cognitive Ability Test Prep

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The Cognitive Abilities Test (CogAT) is a multiple-choice test designed to measure a child's academic aptitude. It is used to measure cognitive development among children and is often used to identify gifted children for admissions into gifted and talented programs across the United States.

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# *CogAT*

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## Elementary School Math Competition

### 3rd Grade Math

1. Shapes
2. Skip-Counting
3. Perimeter and Area
4. Multiplication
5. Perfect Squares
6. The Distributive Property
7. Variables
8. Division
9. Measurement
10. Fractions
11. Estimation
12. Area

3rd Grade Sample Test

### 4th Grade Math

1. Shapes
2. Multiplication
3. Exponents
4. Counting
5. Division
6. Logic
7. Factors
8. Fractions(+/-)
9. Integers
10. Fractions (x/÷)
11. Decimals
12. Probability

4th Grade Sample Test

### 5th Grade Math

1. 3D Solids
2. Integers
3. Expressions & Equations
4. Statistics
5. Factors & Multiples
6. Fractions
7. Sequences
8. Ratios & Rates
9. Decimals
10. Percents
11. Square Roots
12. Exponents

5th Grade Sample Test

### PreMathCounts

1. Integers & Arithmetic
2. Word Problems 1
3. Angle
4. Area
5. Counting and Probability
6. Basic Number Theory
7. Sequences
8. Powers
9. Fractions & Decimals
10. Word Problems 2
11. Length
12. 3D Geometry

PreMathCounts Sample Problems

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## Middle School Math Competition

### PreMathCounts

1. Integers & Arithmetic
2. Word Problems 1
3. Angle
4. Area
5. Counting and Probability
6. Basic Number Theory
7. Sequences
8. Powers
9. Fractions & Decimals
10. Word Problems 2
11. Length
12. 3D Geometry

PreMathCounts Sample Problems

### MathCounts AMC 8

1. Integers & Arithmetic
2. Word Problems 1
3. Angle
4. Area
5. Counting and Probability
6. Basic Number Theory
7. Sequences
8. Powers
9. Fractions & Decimals
10. Word Problems 2
11. Length
12. 3D Geometry

MathCounts Sample Problems

### Advanced AMC 8

1. Basic Number Theory
2. Modular Arithmetic
3. Integers & Arithmetic
4. Word Problems
5. Angle
6. Area
7. Counting
8. Probability
9. Divisibility
10. Sequences
11. Powers
12. Work Problems
13. Numbers
14. Analytic Geometry
15. Functions
16. Puzzles & Logic
17. Length
18. 3D Geometry

AMC 8 Sample Problems

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# High School Math Competition

## AMC 10-12

American Mathematics Competitions

1. Basic Number Theory
2. Modular Arithmetic
3. Integers & Arithmetic
4. Word Problems
5. Angle
6. Area
7. Counting
8. Probability
9. Divisibility
10. Sequences
11. Powers & Logarithm
12. Work Problems
13. Polynomials
14. Analytic Geometry
15. Functions
16. Puzzles & Logic
17. Length
18. 3D Geometry

[AMC 10 Sample Problems](#)   [AMC 12 Sample Problems](#)

## AIME

American Invitational Mathematics Examination

1. Basic Number Theory
2. Modular Arithmetic
3. Diophantine Equations
4. Words & Equations
5. Trigonometry
6. Similarity
7. Area
8. Counting and Probability
9. Divisibility
10. Sequences
11. Logarithm
12. Complex Numbers
13. Polynomials
14. Analytic Geometry
15. Functions
16. Puzzles & Logic
17. Geometry
18. 3D Geometry

[AIME Sample Problems](#)

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# **SAT/PSAT Test Prep**

The SAT has undergone its biggest change in 30 years. The New SAT made its debut in March 2016 and impacts students in the class of 2017 or younger. We have been closely monitoring the changes to make sure counselors, parents, and students get the inside scoop. And we have specific tips for the class of 2018-2019.

The content on the New SAT is very similar to that which is on the ACT. The major difference is in how the concepts are tested and the steps students will have to take to solve problems correctly. Students have to reason their way through this exam by tackling problems in a linear and sequential fashion; a student's ability to process information quickly is key.

There are Changes You'll Love and Changes You Won't

**[Register Now](#)**

## Pre Algebra

1. Expressions and variables
2. Order of operations
3. Comparing and ordering integers
4. Adding & Subtracting integers
5. Multiplying and dividing integers
6. Properties and operations
7. Distributive property
8. Simplifying variable expressions
9. Rational numbers
10. Adding and Subtracting like fractions
11. Adding and subtracting unlike fractions
12. Multiplying & Dividing fractions
13. Rational Equations & Inequalities

## ALGEBRA I

1. Equations
2. Inequalities
3. Exponents and Polynomials
4. Polynomials and Factoring
5. Graphs and Linear Equations
6. Systems of Equations
7. Inequalities and Absolute Value
8. Rational Expressions and Equalities
9. Radical Expressions and Equations
10. Relations and Functions
11. Quadratic Equations

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## GEOMETRY

1. Points, Lines, Planes and Angles
2. Proof
3. Perpendicular and parallel
4. Triangles
5. Similarity
6. Right triangles and trigonometry
7. Quadrilaterals
8. Transformations
9. Circles
10. Area

## ALGEBRA II

1. Equations and inequalities
2. How to graph functions and linear eqns.
3. How to solve system of linear equations
4. Matrices
5. Polynomials and radical expressions
6. Quadratic functions and inequalities
7. Conic Sections
8. Polynomial functions
9. Rational expressions
10. Exponential and logarithmic functions
11. Sequences and series
12. Discrete mathematics and probability
13. Trigonometry

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## Pre-CALCULUS

1. Relations and Functions
2. Polynomial and Rational Functions
3. Exponential and Logarithmic Functions
4. Special Topics
5. Systems of Equations and Matrices
6. Trigonometric Functions
7. Trigonometric Identities
8. Applications of Trigonometry
9. Topics in Analytic Geometry
10. Limits

## AP CALCULUS-AB

1. A Library of Functions
2. The Derivative
3. Differentiation
4. Using the Derivative
5. The Definite Integral
6. Constructing Antiderivatives
7. Integration
8. Differential Equations
9. Using the Definite Integral

# Register Now

### Community

Pinnacle Academy serves the educational needs of the students in Fairfax County Area. Located in one of the state's fastest growing areas, the location enjoys a diversified economic base. Pinnacle Academy is a AdvancED accredited private school that consists of grades Preschool-12.

### School

**PINNACLE ACADEMY** is a comprehensive four-year private school enrolling 23 students in grades 9–12. The high school opened in the fall of 2016 and graduated its first senior class in the spring of 2018. Pinnacle Academy holds membership in the **College Board, the National Association for College Admission Counseling, and the National Honors Society.**

### Curriculum

The academic program is organized on a rotating traditional schedule. Pinnacle operates on a ten month traditional school calendar. Renzulli School Enrichment Model is used for gifted and talented program.

**AP® courses offered:** AP is an open-enrollment program and provided through APEX Learning®.

**Honors classes offered:** English I, Algebra I, Algebra II, Geometry, Pre-Calculus, World History, Biology, Spanish and

Turkish, PLTW-Introduction to Engineering.

**College acceptances received from** University of Virginia, College of William and Mary, University of Maryland College

Park, George Mason, Arizona State University, American Catholic University, American University

**Dual Enrollment:** Pinnacle Academy High School becomes Pinnacle Academy Early College program as of 9th grade. Middle

school students start earning high school credits as early as 6th grade and high school students start earning

college  
credits as early as 9th grade. After taking few college courses during the 9th grade, students are fully  
immersed into Pinnacle  
Academy Early College partnership with the Northern Virginia Community College. As of 10th grade and up,  
they continue  
to take nothing but college courses, from the college professors, at the college campus, along with other  
regular college  
students. Such an opportunity allows the students to earn an advanced high school diploma and an associate  
degree from  
the community college by the end of their high school journey.