



# **Summer Knights**

**2019**



*Academic Enrichment and  
Interest-based Programs*

**Offered to ALL Students 6-12 Grade**

We are excited to be offering summer programs for middle and high school students. You do not need to be a CCHS student to attend our workshops. We offer a diverse selection of programs this summer, each of which is listed below. Along with each program you will find its description.

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***Course Title:***  
**PREVIEW/REVIEW ALGEBRA 1**

**Course Description:**

This course will be a review of Algebra 1 material that is required to know before taking Geometry. This course will also be beneficial to students who are currently in Geometry, but would like to review concepts before taking Algebra 2.

Designed to preview basic Algebraic concepts, including operations with integers, positive and negative fractions and decimals, order of operations, simplifying Algebraic expressions, implementation of the distributive property, solving equations with variables, operations with polynomial expressions, and factoring polynomials. Variety of problem-solving techniques are applied.

The content of this course is important for students' success in high school math and for both the ACT and SAT exams.

<b>Entering Grade:</b> 7-12	<b>Instructor:</b> Francis cfrancis@cchsknights.org
<b>Dates:</b> June 10-June 28 Mondays through Thursdays	<b>Time:</b> 10am-11:50am
<b>Fee:</b> \$250	<b>Enrollment Min:</b> 5 <b>Enrollment Max:</b> 28
<b>Location:</b> CCHS Room 105	<b>Course Requirements:</b> Students are expected to bring to class, a graphing calculator (TI-84) and a notebook.

**Course Title:**

**TEST PREP/SAT/ACT/EVERYDAY PROBLEM SOLVING**

**Course Description:**

A variety of instructional methods will be implemented to meet each student's learning style. This course is designed to prepare students for the SAT/ACT test in mathematics by familiarizing each student with the organization and content of the test. Most of the time will be spent reviewing key concepts in math; however some time will be dedicated to developing test-taking strategies and practice testing. More importantly, this course will focus on the art of everyday problem solving which every student will need to master to be successful in his or her future.

This program covers various problem solving techniques from Pre-Algebra to Precalculus that fall within the range of Grade 7-12 math. This Ultimate Classroom is a comprehensive test prep that includes 20-24 hours of in-class instruction, practice exams and practice questions. All materials are included with the course fee.

<b>Entering Grade:</b> 7-12	<b>Instructor:</b> Perdziola tperdziola@cchsknights.org 412-401-6757
<b>Dates:</b> June 10-June 28 Mondays through Thursdays	<b>Time:</b> 8am-9:50am
<b>Fee:</b> \$250	<b>Enrollment Min:</b> 5 <b>Enrollment Max:</b> 28
<b>Location:</b> CCHS Room 102	<b>Course Requirements:</b> Students are expected to bring to class, a notebook and a graphing calculator (TI-84).

**Course Title:**  
**PREVIEW of TRIGONOMETRY**

**Course Description:**

This course is designed to help students make the transition from Algebra 2 to trig. This course covers mathematical topics in trigonometry. Trigonometry is the study of triangle angles and lengths, but trigonometric functions have far reaching applications beyond simple studies of triangles. This course is designed to help prepare students to enroll for a first semester course in single variable calculus

**A few of the topics are:** Manipulating Graphs: Shifts and Stretches; Manipulating Graphs: Symmetry and Reflections; Quadratic Functions; Composite Functions; Graphing Rational Functions; The Trigonometric Functions Angles and Radian Measure; Right Angle Trigonometry; Applications of Right Triangle Trigonometry; The Trigonometric Functions Graphing Sine and Cosine Functions; Trigonometric Identities Basic; The Law of Sines; The Law of Cosines Heron's Formula Complex Numbers Operations.

<b>Entering Grade:</b> 7-12	<b>Instructor:</b> Perdziola tperdziola@cchsknights.org 412-401-6757
<b>Dates:</b> June 10-June 28 Mondays through Thursdays	<b>Time:</b> 10am-11:50am
<b>Fee:</b> \$250	<b>Enrollment Min:</b> 5 <b>Enrollment Max:</b> 28
<b>Location:</b> CCHS Room 102	<b>Course Requirements:</b> Students are expected to bring to class, a notebook and a graphing calculator (TI-84).

**Course Title:**  
**PREVIEW/REVIEW of ALGEBRA 2**

**Course Description:**

This course is designed to build on algebraic and geometric concepts. It develops advanced Algebra skills such as systems of equations, advanced polynomials, imaginary and complex numbers, quadratics, and concepts and includes the study of trigonometric functions. It also introduces matrices and their properties. The content of this course are important for students' success on both the ACT and SAT exams.

<b>Entering Grade:</b> 7-12	<b>Instructor:</b> Perdziola tperdziola@cchsknights.org 412-401-6757
<b>Dates:</b> June 10-June 28 Mondays through Thursdays	<b>Time:</b> 12 noon-1:50PM
<b>Fee:</b> \$250	<b>Enrollment Min:</b> 5 <b>Enrollment Max:</b> 28
<b>Location:</b> CCHS Room 102	<b>Course Requirements:</b> Students are expected to bring to class, a notebook and a graphing calculator (TI-84).

**Course Title:**  
**PREVIEW of GEOMETRY**

**Course Description:**

This course is designed to help students make the transition from Algebra 1 to Geometry. Many of the topics which students will explore in this course include: an inductive and deductive approach to student learning and discovery in the development of logical reasoning. Traditional topics from plane and solid geometry are covered including the writing of formal deductive proofs, application of theorems and definitions; understanding and applications of common formulas for areas and volumes of geometric figures and the introduction of constructions.

<b>Entering Grade:</b> 7-12	<b>Instructor:</b> Perdziola tperdziola@cchsknights.org 412-401-6757
<b>Dates:</b> June 10-June 28 Mondays through Thursdays	<b>Time:</b> 2pm-4pm
<b>Fee:</b> \$250 per three-week session	<b>Enrollment Min:</b> 5 <b>Enrollment Max:</b> 28
<b>Location:</b> CCHS Room 102	<b>Course Requirements:</b> Students are expected to bring to class, a notebook and a graphing calculator (TI-84).

**Course Title:**  
**PREVIEW/REVIEW PRE-ALGEBRA**

**Course Description:**

This course is designed to build on pre-algebraic concepts. It focuses on adding and subtracting, integers, fractions, irrational numbers, scientific notation, tax, and discount prices. It will help those students prepare for pre-algebra or those who wish to brush up on their skills before taking algebra.

<b>Entering Grade:</b> 5-10	<b>Instructor:</b> Francis cfrancis@cchsknights.org
<b>Dates:</b> June 10-June 28 Mondays through Thursdays	<b>Time:</b> 8am-9:50am
<b>Fee:</b> \$250 per three-week session	<b>Enrollment Min:</b> 5 <b>Enrollment Max:</b> 28
<b>Location:</b> CCHS Room 105	<b>Course Requirements:</b> Students are expected to bring to class, a graphing calculator (TI-84) and a notebook.

***Course Title:***  
**BEGINNER GUITAR CLASS**

**Course Description:**

This course is designed for the beginning guitar player. Basic technique and fundamentals will be stressed during this class. The following concepts will be covered during this session: parts and maintenance of a guitar, proper posture and hand positions, 1st position notes, reading treble clef, basic chord structures, strumming, IMPA finger picking, blues basics, power chords, and introduction to bar chords.

<b>Entering Grade:</b> 5-12	<b>Instructor:</b> J. Matthew White mwhite@cchsknights.org
<b>Dates:</b> July 8-July 12 Mondays through Thursdays	<b>Time:</b> 10am-12pm Lunch 12-12:45 (not provided) 12:45-2:30pm
<b>Fee:</b> \$250	<b>Enrollment Min:</b> 5 <b>Enrollment Max:</b> 12
<b>Location:</b> CCHS Room 016	<b>Course Requirements:</b> Students are expected to ready to learn and play music!



**Course Title:**

**DIY ELECTRONICS-INTRODUCTION TO STEM PROJECTS**

**Description:**

Interested in science, math, and engineering? DIY Electronics is a great way to explore your interests and get involved in STEM! During this workshop you will learn to solder while investigating the electronics components and how they work together. Each participant will construct their own electronics kit to take home.

<b>Entering Grade:</b> 6-9	<b>Instructor:</b> Warmuth dwarmuth@cchsknights.org 412-401-6757
<b>Dates:</b> June 24-June 28 Mon-Fri - 1 week camp	<b>Time:</b> Time: 9am-11am
<b>Fee:</b> \$125	<b>Enrollment Min:</b> 5 <b>Enrollment Max:</b> 10
<b>Location:</b> Physics Lab-Room	<b>Course Requirements:</b> Students will be provided with an electronics kit.

# HOW TO REGISTER

Select the Course from the list below:

**PREVIEW/REVIEW ALGEBRA 1**

**TEST PREP/SAT/ACT/EVERYDAY PROBLEM SOLVING**

**PREVIEW of TRIGONOMETRY**

**PREVIEW/REVIEW of ALGEBRA 2**

**PREVIEW of GEOMETRY**

**PREVIEW/REVIEW PRE-ALGEBRA**

**BEGINNING GUITAR**

**DIY ELECTRONICS-INTRO TO STEM**

Student Name: \_\_\_\_\_

StudentEmail: \_\_\_\_\_

Student Phone: \_\_\_\_\_

Parent/ Guardian Name: \_\_\_\_\_

ParentEmail: \_\_\_\_\_

Parent Phone: \_\_\_\_\_

Street Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Most Recent Math Course Completed

*(If signing up for one of the Math sessions):* \_\_\_\_\_

\_\_\_\_\_

**TOTAL PAYMENT:** \_\_\_\_\_

**Please submit this completed registration form  
and payment by May 10 to:**

***By Mail:***

Mrs. Harris in the finance office 75 14th Street Wheeling, WV 26003

***You can also give to Mr. Perdziola at school.***

***How to Pay:***

Make a check out to **CENTRAL CATHOLIC HIGH SCHOOL** and  
submit with this completed form.

For questions contact Tom Perdziola at (412) 401-6757 or  
[tperdziola@cchsknights.org](mailto:tperdziola@cchsknights.org).

**Central Catholic High School**  
75 14th St., Wheeling, WV 26003  
[cchsknights.org](http://cchsknights.org)