

Paraclete High
School
Technology
Program



School-Wide Technology

Internet Access with speeds of up to 1gb

WiFi with 50 Access Points throughout campus

Fully CIPA compliant network with firewall for filtering

Computer Labs - Mac computer lab, Windows computer lab, Media/Library lab, Robotics lab, CyberPatriot lab, teacher Intranet

iPad for every student and staff

Student Information System (SIS)



iPad 1:1

The FIRST school in the Antelope Valley to offer School-wide Mobile Technology!

Since 2013, Paraclete has had a 1:1 iPad program for all students. This program enhances our already high academic standards. Paraclete aims to give your child the best education possible and to prepare them for success in college and life. The iPad program that we instituted is similar to many programs we have researched across the country. It promotes student and instructor engagement, communication, and collaboration inside and outside the classroom. Teachers and Students rely on educational apps as well as electronic textbooks that can be managed by the school. Teachers store their classroom content online – in iTunes U or Google Classroom. This is easily accessible on the iPad!



iPad 1:1 (cont)

Management & Security

iPad Cover provided for protection

Installed Apps

Price included in tuition

iPad 6th Generation with 128GB of storage

Digital Textbooks

Google Enterprise



Coursework

Computer Science 1


Programming with Python

Programming with Java

AP Computer Science Principles

Graphic Design

Digital Photography



CS1 Curriculum

Content by Topic:

- Digital Citizenship/ Your Digital Footprint
- Robotics
- iOS Apps/Game Coding and Design
- Keynote/Google Slides Presentations
- Microsoft Excel beginner and advanced
- Web Design
- Java script
- Data Analysis
- Internet Research



AP CSP Curriculum

Course content:

- Creativity - You'll learn that creativity is an important part of computing.
- Abstraction - You'll learn to use abstractions to model the world and communicate with people as well as computers
- Data and information - You'll explore the many ways in which raw data is transformed into information and knowledge
- Algorithms - You'll learn what algorithms are, what they can do, and how they're used in computing
- Programming - You'll learn the concepts and techniques related to writing programs, developing software, and using software effectively.
- The Internet - You'll explore the principles of systems and networks that enable the Internet to function.
- Global Impact - You'll examine the many ways in which computers have changed how we think, work, live, and play.



Software Applications

Adobe Creative Cloud - Desktop Publishing applications like Photoshop, InDesign, Illustrator, Acrobat, Premier, etc

Microsoft Office Applications

Programming languages -

Python, Java, Javascript, Alice, Scratch

RobotC and Android Studio

X-Code and Swift for OS and iOS



Extra Curricular Programs

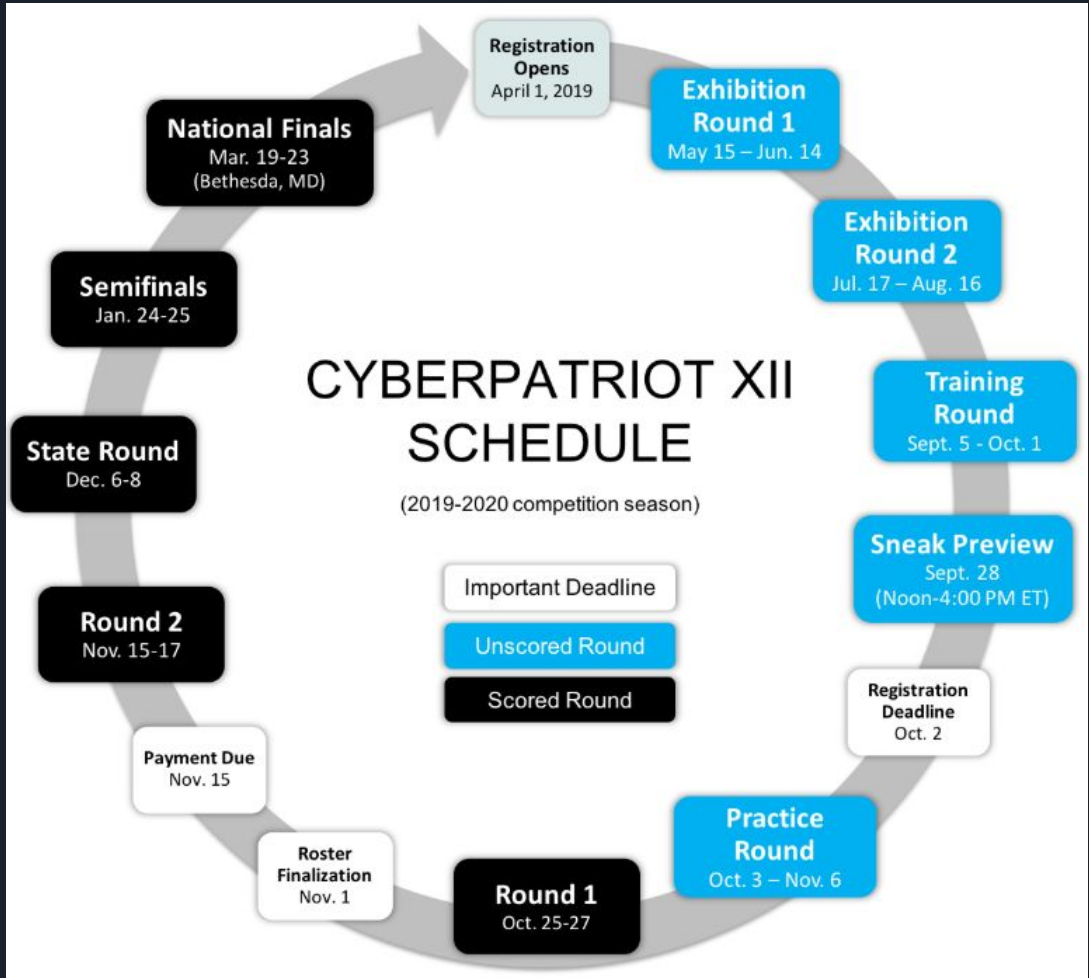
- Robotics
- CyberPatriot
- Yearbook
- Journalism



CyberPatriot

CyberPatriot is the National Youth Cyber Education Program created by the Air Force Association to inspire K-12 students toward careers in cybersecurity or other science, technology, engineering, and mathematics (STEM) disciplines critical to our nation's future. At the core of the program is the National Youth Cyber Defense Competition, the nation's largest cyber defense competition that puts high school and middle school students in charge of securing virtual networks.

CyberPatriot





CyberPatriot Topics

- Cyber Ethics - fundamentals of ethical behavior in the real world and online
- Intro to Cybersecurity and Cyberpatriot - basics of CP-VII and the importance of Cybersecurity
- Online Safety - ways to stay safe on the Internet; cyberbullying; social media tips
- Computer Basics and Virtual Machines - computer hardware and the software used to play competition virtual machine images
- Principles of Cybersecurity - cybersecurity concepts in more detail; CIA Triad; social engineering; malware
- Microsoft Windows Security - find and fix common vulnerabilities on Windows images
- Windows File Protections and Monitoring - advanced Windows security topics including encryption, backups, auditing, system monitoring
- Introduction to Linux and Ubuntu - gain an introduction to non-Windows systems
- Ubuntu Security - securing an Ubuntu operating system