

Objectives and Inventory of the CPA Technology Program

Elementary School:

- All K-5 students are introduced to *Microsoft Office*.
 - All K-5 students receive formal computer training once a week either in the elementary computer lab or in their classrooms.
 - **Kindergarten** students practice mouse skills, learn to navigate to web sites that apply technology skills, use drawing tools, and learn proper handling of computers.
 - **First- and second-grade** students learn home-row keys, use simple word-processing skills, navigate the Internet while practicing good safety rules, develop ethical uses of the computer, and learn about multimedia and graphics.
 - **Third- through fifth-grade** students build on the skills taught in K-2. The students use all keys on the keyboard, develop word-processing skills, create multimedia presentations, apply graphics, and are introduced to spreadsheets.
 - In all elementary grades, student collaboration using technology is a vital part of their learning.
 - Students are exposed to and able to interact with the various forms of technology used by their teacher in the learning activities, including document readers, interactive Promethean boards, and online resources.
 - Students, especially in third through fifth grades, use technology to produce evidence of their learning in creative ways.
 - Students use technology for learning using such tools as: word processing, on-line research, Moodle, Inspiration mind-mapping software, online test-taking, and EducationCity.com for remediation and enrichment.
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Middle School:

- By the time they reach middle school, students have achieved basic proficiency in word processing, presentation programs, spreadsheets, Internet and computer operation.
- In sixth, seventh and eighth grades, students use laptop computers to create projects assigned by their classroom teacher. These projects include podcasts, PowerPoints, brochures, written reports, concept maps, iMovies and more.
- There are currently five laptop carts in the middle school for students to use and iPad carts will be added in the coming years.
- Teachers use Promethean Boards, Elmo document readers, tablets, and laptops to present lessons.
- Students in middle school learn to use the school's databases and other Internet tools for research as part of their larger research projects.
- A full-time technology integrationist works with teachers to bring salient technology projects to the classroom.

- Emphasis in the middle school is placed on student proficiency with keyboarding and the access and responsible use of information using technology.
 - Students use technology for learning using such tools as: word processing, on-line research, Moodle, Inspiration mind-mapping software, online test-taking, iMovie and other video class projects, spreadsheets, online access to some textbooks, and Vernier software for collecting data in Science class.
 - Middle school students use technology to analyze, collaborate, apply, and build skills that will prepare them for high school and later for college and the workforce. It is through using a variety of forms of technology that students become true 21st Century digital citizens.
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High School:

- The high school computer lab utilizes 18 Macs with Adobe Master Suite that also boot as PCs. The high school library hosts another bank of 20 computers
- The Computer department offers a variety of courses covering a wide spectrum of student interests. The courses provide specialized instruction while also preparing students for college.
- Each CPA high school student must take one computer course before graduation. These include: Computer Applications, Multimedia Applications, Graphic Design, Animation Design, Web Page Design, C++ Programming I and II Honors.
- Computer Programming classes include designing, building, and programming robots.
- In Broadcasting classes students utilize a wide variety of technology that allows them to work in all production phases of creating a full-length video project.
- Journalism classes use InDesign software, digital cameras, and photo editing software to create our award-winning yearbook.
- All students in high school learn to use the electronic library databases and other Internet tools for research in all classes that require research-based writing and analysis.
- A Technology Integrationist assists all classroom teachers to effectively incorporate technology into their curriculum.
- Students use technology for learning: word processing, on-line research, Moodle, creating presentations, taking tests online, iMovie class projects, creating podcasts, spreadsheets, blogs, wikis, using Livescribe pencasts, reverse classroom teacher videos, eClickers, creating web pages, desktop publishing, image editing, and creating digital music.
- Electronic access to grades and assignments using PowerSchool and Moodle teacher pages allow students continuous access to these resources.
- Students are taught how to responsibly use technology built on the Christian world and life view.

Students in K-12 collaborate on authentic, project-based activities to develop thinking skills, problem-solving skills and effective communications skills. Classroom teachers at all grade levels are encouraged to implement technology in their classes. Teachers have access to wireless laptop carts in their classrooms; our wireless environment allows students to work anywhere on campus.

Current technology being used PreK-12:

- 650+ laptops (17 carts of computers – on a replacement cycle)
- Wireless campus-wide
- 25 teachers use iPads to teach
- 25 Promethean boards campus-wide, with four more coming next year
- Elmo document readers in every classroom
- HDMI Projectors in every classroom
- Two computer labs – ES and HS
- Banks of computers in each of the three libraries
- Broadcast course and technology that supports it
- Approximately 25% of textbooks are available in digital format
- Working actively with Follet (textbook provider) to utilize digital textbooks