

Appendix B: Seneca Grade School / Nemaha Valley Junior High School Available Technology

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On March 10, 2007, Seneca Grade School suffered a fire that destroyed a major portion of the building. The K-8 facility is now split between two locations.

- Junior High Area - The junior high has 49 Macintosh laptops for student usage. Due to the split locations, the JH is utilizing older (6+ year) laptops in addition to new ones. When the new school is built, the JH students will again share desktop lab use with GS students and the older laptops will be phased out. One laptop cart of 25 new computers is located in the math/computer app. classroom. This cart is utilized by the computer applications class part of the day and by other classes for the remainder. Another cart of 16 laptops is located in the grammar classroom. The remaining 8 laptops are located in a cart in the library. These laptops are available for student/classroom use on a sign-up schedule. Each classroom has 1 Mac computer and a network printer. A color network laser printer is available for student use in the math/computer room. The library area has 1 Mac for management of their library. Four teachers have laptop computers. Four TV's on carts are shared among classrooms for presentation of computer display and Discovery Education videos.
- Grade School (K-5) - Each classroom has 2 student workstations, a teacher workstation and a network printer. Five TV's on carts are shared among classrooms for presentation of computer display and Discovery Education videos. A projector is available to all K-5 teachers as another presentation alternative. A laptop is also available.
- Grade School Computer Lab - The K-5 building has a computer lab with 21 Mac computers, 1 black and white laser printer and a color laser printer. This lab is utilized for computer based instruction by all classes. Because it is currently an open area adjacent to the area being used to serve lunch, it is not available during lunch.
- Library - The library has 1 Mac checkout workstation. Due to limited space (library is also the lunchroom) there are no other computers in the library. Any computer on the network can access the library search database through an Internet browser.
- Office / Administration - All personnel have access to a workstation and laser printer. The principal and counselor have laptops. Most of these workstations are Macs. One Windows PC is utilized to run the food service software.
- Physical Education: The PE teacher has a Windows laptop. PE management software is installed as part of a federal physical education grant.
- Distance Learning: The grade school has a 'portable' distance learning cart capable of providing distance learning opportunities through Greenbush and the KAN-ED network.

Network Infrastructure - Seneca Grade School / Nemaha Valley Junior High School

- Wide Area Network (WAN) - Fiber optic cable connects the high school to the grade school building at 709 Nemaha. Prior to the fire, this cable was utilized to deliver distance learning programming from the high school to the grade school. Since the fire, this cabling is also being used to connect the junior high classrooms to the grade school network.
- LAN -- The two facilities maintain independent local area networks (LANs).
 - SGS Wiring - The grade school facility has 2 'wiring closets'. The main one is in the library tech office with the surviving HP4000 switch. Two Signamax 16-port switches housed in an upstairs custodial closet connect the northeast wings and northeast mobile to the main HP switch. The southeast mobile is also connected to the main switch with cable. The cabling is CAT5e. Most classroom have 3 drops. 5-port switches are used to provide additional network access where needed.

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- SGS Wireless - The grade school has 3 Cisco wireless access points located in the basement library, the west classroom hallway and the office hallway. The access points utilize WEP 128 bit encryption security.
- JH Wiring - The junior high mobiles have 1 wiring area in the grammar room with one Signamax 16-port switch. The cabling is CAT5e. Each classroom has 1 drop. 5-port switches are used to provide network access to printers or other workstations.
- Connection to SGS network - Fiber connection to the SGS network is located in the northeast mobile classroom. All JH classrooms have a connection to this network.
- JH Wireless - The junior high mobiles have 3 Cisco wireless access points. One is located in the main mobile hallway, one in the northeast mobile classroom and one in the southeast mobile classroom. The access points utilize WEP 128 bit encryption security.
- Servers - The grade school network utilizes Mac OS X Server and Linux as operating systems on its servers. The server operating system is determined by need, cost and compatibility with the grade school network.
- A Gateway E3400 computer runs Linux and hosts the functions of LAN firewall, internet filter and DHCP routing.
- The G4 Mac OS X Server currently runs OS 10.4.10 operating system software. It functions as an Idap server and is used for MacSchool data (student management), eClass Grades files, Accelerated Reader and all Renaissance Learning data, student and teacher data, and runs Network Manager for Discovery Education streaming video.
- Internet Access is obtained from Rainbow telecom via cable modem.

Backup -- Seneca Grade School / Nemaha Valley Junior High School

- A firewire drive is used for scheduled backup of data from the G4 server (Renaissance Learning data, student & teacher data, secretary's accounting files, MacSchool & grade files) using Carbon Copy Cloner software.
- An external USB drive is used to backup library data from the main library station.
- A DVD will be created monthly from these backups for off-site storage.
- Floppy disks are used to backup the lunch service data.

Software -- Seneca Grade School / Nemaha Valley Junior High

- The purchase of software will be analyzed annually by the technology coordinator in an effort to stay current, legal (licensing) and in compliance with state standards. Software selection criteria will include cost, ease of use and alignment to the curriculum. Teacher wish lists, software demonstrations and staff discussions will be used in making purchasing decisions. The ~~grade high-school's~~ software budget is determined by district educational needs annually.
- Licensing will be analyzed annually in an effort to maintain compliance with software licenses. Whenever possible, network licenses will be purchased. Mac OS 10.4.x is the operating system on most computers in the building. This OS will be updated as new computers are purchased. The selection of an operating system will be based on ability to function in current networking environment and cost.
- Microsoft Office is the integrated software package selected for use in all areas.
- Educational software needs will be assessed annually. Purchasing decisions will be based on available funds, cost, ease of use, alignment to curriculum and willingness of teaching staff to integrate software into the curriculum.
- SGS / NVJH utilizes ClamXav to screen for viruses and spyware on a user option basis.

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- SGS / NVJH utilizes Apple's Mac OS X and Mac OS X server for the network operating system and network management. Updates to the Apple servers are usually applied during the summer. Apple Remote Desktop is also used to manage network computers.
- The library management software is Alexandria. The library was converted from Winnebago Spectrum to Alexandria during the summer of 2007. Annual tech. support will be maintained with updates applied as needed.
- MacSchool is used for student management, including scheduling, records and electronic grades. As part of the MacSchool package, teachers utilize eGrade for their digital gradebook. A subscription to K12 Planet is maintained to provide 4th through 8th grade students and parents access to student grades via the Internet. Annual technical support is maintained.
- STAR Reading and Math, Accelerated Reading and Accelerated Math are utilized in the curriculum. Internet-based prescriptive learning PassKey is utilized to reinforce learning across the curriculum. Annual technical support contracts are maintained for these software packages.
- Dan's Guardian is currently being used for Internet filtering, running from the Linux machine that also runs the firewall and routing. Updates are applied on a regular basis.
- E-mail for staff is obtained thru the high school.