



Sts. Peter and Paul Catholic School Technology Development Plan

The Archdiocese of Miami affirms the place of technology as a significant infrastructure of Catholic education programs. Sts. Peter and Paul Catholic School is committed to enhancing our students learning by facilitating the use of practical technology, providing instruction on how to apply technology as a working tool.

Because the technological world is ever changing, it is necessary to proceed with the development plan that has flexible and expandable infrastructure, efficient classroom management applications, dynamic classroom multimedia presentation techniques, and effective professional development. It is also because of this continuous shift in technological paradigm, we will be placing a greater emphasis on web-based information.

At the end of this five year plan (2019) Sts. Peter and Paul Catholic School will have an effective technological infrastructure with the appropriate hardware, software, peripheral equipment, wireless access, storage, and network.

The Sts. Peter & Paul School Network is presently comprised of the following:

- The Main Building is connected to 3 satellite buildings (Pre-Kinder, 1st & 2nd grade, and cafeteria), via Fiber Optic Cable; all buildings run Ethernet to the switches.
- Comcast Cable provides Internet connection.
- There is one teacher workstation per classroom.
- The workstations are running Windows 7 as their Operating System and Microsoft Office 2010 as the productivity suite, in addition to several other task specific software applications.
- The school's computer lab is equipped with 34 HP Compaq workstations.
- The workstations are connected to the network via Ethernet to 3 Cisco-Linksys switches.
- All of the lab workstations are running Windows 7 and MS Office 2010 as the productivity suite.
- All workstations on the Sts. Peter and Paul network connect to our servers, SPP-Server and SPP-Server2. There is redundancy built into the servers for backup purposes. SPP-Server is a Windows 2003 file server, as well as our Internet content filter. SPP-Server2 is a Windows 2008 Active Directory/DNS Server.
- There are two network laser printers (Lexmark T644 and HP3600n color), which serve, as a second printer option should the local printer on any workstation fail.
- Email is outsourced to www.GoDaddy.com.
- Web-hosting is outsourced to www.Edline.net.

Our goals in the Next 5 Years is to incorporate or improve:

1. Web Delivery Service:

Local Area Networks (LANs) carry data between servers and computers. Our network is capable of carrying 100 MB per second over Ethernet. The SPPS LAN connects all computers to Comcast Business Internet via cable modem. The speeds from the carrier to our internal infrastructure are acceptable; however the existing Cat5 runs should be replaced with Shielded Cat-6 for Gigabit network connectivity to meet the high speed demands on the SPPS LANs from classrooms. Video conferencing, video streaming, and potential projects such as digital lockers will combine to create the need for increased bandwidth.

The 3 Cisco-Linksys switches are outdated and should be replaced with newer models because they have reached the End of Life/End of Support in August 2015.

The service used for web content filtering needs to be upgraded to allow for network separation between faculty and students.

2. Infrastructure for Connectivity

- a. Ceiling Mounted LCD Projectors/Presentation Stations with DVD and cable access in all classrooms as well as the auditorium
- b. Purchase additional iPads and charging carts for circulated use.
- c. Continue to phase out computers that cannot participate on the domain or accept required antivirus applications.
- d. Replace outdated SmartBoards projectors with newer models and upgrade Notebook software to latest version.

3. Software Initiatives

- a. Purchase and deployment of updated Enterprise Virus Protection.
- b. Purchase upgrade to Wirecast Ethernet video streaming software for televised morning announcements.
- c.

4. Network Infrastructure Initiatives

Perform an elaborate self-audit of all technology equipment and incorporate results into an Asset Management System. Barcode and document all technology devices system-wide.

5. Professional Development

- a. Professional development will continue to be an ongoing priority. At the start of school all teachers PrK – 8 will have grade book and video presentation training. This training will continue throughout the course of the school year utilizing outside vendors and the technology teacher. If necessary, teachers will receive integration support on a weekly basis. We will incorporate the train the trainer model and provide training to key personnel during the summer.
- b. Teachers will collaborate more quickly and effectively with other teachers and administrators as they prepare curricula and experiment with innovative teaching methods.

6. Technology and Curriculum Integration

- a. All teachers and staff PrK-8 communicate with staff members through existing email system providing greater efficiency and collaboration through electronic measures.

- b. Research and design a PrK-8 curriculum mapping software and develop an implementation strategy for reaching all students across the board.
- c. Identify technology mentors in each of the grade levels.
- d. Develop a technology committee responsible for technology plan monitoring and evaluation

EXPECTED TECHNOLOGY OUTCOMES SY2015 - SY2019

Expected student outcomes in 3 years as a result of technology use:

- After three years of participation Sts. Peter and Paul’s technology program our students will be both confident and comfortable using technology to enhance the classroom learning experience.
- Increased student access to technology learning resources will improve their mastery of Archdiocese of Miami technology standards as measured by local assessments methods. Students will be proficient in essential computer skills and applications.
- Students will increase their use of the Internet for research purposes.
- Proficient information literacy skills will allow students safe and relevant use of technological learning resources.
- Selected students will provide basic computer trouble-shooting and tech support for computers at school.

Expected staff outcomes as a result of technology use:

- Upon completion of a structured training program our staff will have acquired the confidence and skill to use technology for classroom management, instruction, and personal use.
- Teachers will triple their use of technological learning resources to organize, teach and assess student learning.

Expected technology outcomes: infrastructure, hardware, tech support and software:

Infrastructure:

- Continue to provide essential services within an appropriate time frame to all users of the Sts. Peter and Paul Catholic School network.

Hardware:

- All outdated hardware will be phased out and replaced by newer model desktops/ laptops

Technology Support and Curriculum Integration

- Technology Mentors at each grade level

Expected monitoring and assessment outcomes:

- Annual increase in teacher technology proficiencies
- Annual increase in teacher use of technology to enhance curriculum
- Students’ progress in mastering the Catholic standards in the core curriculum
- Students’ progress in acquiring information literacy skills
- Annual maintenance and infrastructure upgrade activities are reviewed and adjustments made as indicated.

Evaluation process to monitor progress:

	Hardware	Software	Infrastructure	Tech Support
Monitor and Evaluation	Annual review of computer replacement cycle, needs assessment of hardware.	Annual review of types, applicability to curriculum, alignment to standards and compatibility to hardware and professional development for teachers and staff.	Annual review of network security, reliability, and performance	Annual review of technical support /helpdesk, security, network & software maintenance, and potential upgrade paths if necessary.
Person Responsible	Computer Teacher & Administration	Computer Teacher, Administration, PrK-8 Faculty and Staff	Computer Teacher & Administration	Technology Committee, Computer Teacher, Administration