

Technology Plan 2008-2012

Strategic Plan

Flossmoor School District 161 will enhance the educational opportunities for students in the infusion of technology into the curriculum. The Technology Plan will provide a basis by which to guide staff in opportunities for technology integration. These opportunities, as guided by the plan, will be realized through professional development, the development of a technology curriculum, support of the current curriculum, and a systematic purchase of equipment.

Technology Summit Planning Committee

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Shavon Collier	4 th Grade, Flossmoor Hills
Marie Dahlstrom	4 th Grade, Heather Hill
Dr. Rebecca Elish	Director of Curriculum and Instruction
Amanda Gallagher	Special Education, Parker Junior High
Shannon Gordon	Technology Assistant, Parker Junior High
Rachel Hansen	3 rd Grade, Heather Hill
Adam Janotta	Math, Parker Junior High
Chris Janotta	Language Arts, Parker Junior High
Lindsay Johnson	5 th Grade, Western Avenue
Kathy Kalmes	Secretary, Parker Junior High
Haley Marti	5 th Grade, Serena Hills
Linda O'Dwyer	Social Studies, Parker Junior High
Elana Panner	Music, Parker Junior High
Deborah Pitts	Director of Instructional Technology and Information
Kate Raddatz	Gifted, Heather Hill
Steve Reid	System Operations Facilitator
Sarah Rudenga	Media Center, Parker Junior High
Jenifer Reichardt	4 th Grade, Western Avenue
Venus Smith	Principal, Heather Hill
Darryl Thompson	Science, Parker Junior High
Kelly Urbanik	5 th Grade, Serena Hills
Carol Waller	Kdg, Flossmoor Hills

Technology Subcommittee

Dr. Donna Joy	Superintendent
Dr. Susan Pingitore	Assistant Superintendent
Arnold Crater	School Board Member
Christine Marks	School Board Member
Deborah Pitts	Director of Instructional Technology and Information

Preliminary Report Technology Summit

The First Technology Summit Meeting was held Friday, February 6, 2009 at Normandy Villa. A second and third meeting ensued on Friday, February 20, 2009 and Monday, March 16, 2009. The final session was held Friday, April 17, 2009. A summary of each of the meetings was presented before Administrative Council, at the Superintendent's Briefing, and minutes sent to all committee members.

The Summit was conducted to determine as a District what could be done to better the learning environment from a technological perspective.

Brainstorming and small group sessions were led to uncover what administration and staff felt could help enhance the student's current learning environment, on how technology could assist relative to their responsibilities, and how the district could overcome the challenges, if any, in integrating technology. Outcomes were summarized and prioritized allowing the group to establish goals and objectives, and in turn, actions steps to meet those goals and objectives for each of the five technology focus areas; student learning, teacher preparation, resource distribution, technical support, and data and communications. The committee prioritized the statements within the action plan to create a workable timeline

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Introduction

Flossmoor School District 161

History and Demographics

Flossmoor School District is located approximately 25 miles south of downtown Chicago and encompasses an area of approximately eight square miles. The District operates a total of six buildings. Parker Junior High houses grades six, seven, and eight. Flossmoor Hills School, Heather Hill School, Western Avenue School, and Serena Hills School are the four elementary buildings which conduct classes for grades kindergarten through five. The District services students in the village of Flossmoor, as well of the neighboring communities of Chicago Heights, Hazel Crest, Homewood and Olympia Fields. Flossmoor Hills School, Heather Hill School, Western Avenue School, and Parker Junior High School are situated in Flossmoor, while Serena Hills and Normandy Villa are both located in Chicago Heights. The District has a current student enrollment of 2,541.

Flossmoor School District 161 serves the needs of children in grades Pre-kindergarten through eighth as required by The School Code. The District is responsible for preparing students to succeed at Homewood Flossmoor, and area, High Schools which serve the majority of the District's student population. District 161 provides each student a rigorous academic education in all traditional subject areas. A rigorous academic education provides each student with a broad-based foundation of facts, knowledge, and skills and the ability to use these tools as necessary to address a wide range of problems. Mastery of the District 161 curriculum will provide each graduate of Parker Junior High the educational base required to excel in high school and beyond.

Attributes of the District:

The Flossmoor School District 161 community has long been a community that puts great value and emphasis on education. The community has shown this commitment through various means, including parental support in the classroom, support of daily efforts of school personnel, and progressive plans in replacing out-dated equipment. Though the economically disadvantaged subgroup in the District has increased from 13.1 to 20.9 over the last three years the District continues to strive in making provisions for new initiatives which are intended to help students achieve at all levels. ISAT scores have increased from 70 to 86% over the last five years.

The District is committed to providing the curriculum and instruction required for all students to meet expectations. While the pace of learning will differ from student to student, the core of what is expected from each student to learn does not.

Mission Statement and Commitment to Technology

Mission Statement

The mission of School District 161 is to challenge every student, without exception, to acquire a core of academic knowledge and master basic skills. The District will provide a rigorous learning environment where our students will acquire a broad based education and develop critical thinking skills, all in accordance with the District's Philosophy of Instruction. Our goal is for our students to gain the knowledge and self-confidence they will need to ensure their future success.

Commitment to Technology

Students will be able to use a wide variety of technological tools to enhance their future success as students and as workers in the workplace. It is imperative for all students to have access to technology via telecommunications that will provide information as a basis for lifelong learning. It is essential for all learners, including educators, to process and manage information through the skillful use of technology provided via robust networks.

Students and educators will explore learning via instructional technologies infused into the District's curriculum provided to serve an individual student's learning style. The competent use of technology supports the development of process skills such as flexibility, adaptability, critical thinking, problem solving, and collaboration, which are essential to success in our rapidly changing information age. Technology will help better serve the diverse learning styles of our students. Technology will engage students by allowing for differentiated instruction, by taking part in authentic tasks as real workers, by using a variety of tools to gather information and solve problems, and by exploring new experiences.

Our schools must prepare students for today's workplace and the workplace of the future. District 161 will continue to evaluate and assess progress toward achieving this vision for technology, in particular, in utilizing technology to communicate with students, parents, board members, and the school community. District 161 will continue to support teaching and learning by updating systems of support for technology in the future.

IT Organizational Infrastructure

The District Technology Department employees three full time staff members. The Director of Instructional Technology and Information, a System Operations Facilitator, and a Technology Technician. All three serve the District Office and the instructional buildings of Parker Junior High, Heather Hill, Flossmoor Hills, Serena Hills, and Western Avenue.

The Director of Instructional Technology and Information ensures that instructional strategies and learning environments integrate appropriate technologies by developing and providing resources that support improved learning. This position assists in the development of the budget for the Technology Department on an annual basis and manages implementation of the budget once established.

The Director also oversees the District's telephone system, T-1 lines, acts as a technical resource in assisting users to resolve problems with equipment and data, serves as the primary resource for data retrieval, maintains Illinois State Board of Education Student Information System, maintains District web site, acts as primary E-Rate coordinator, conducts training sessions, and serves on the Administrative Council.

The Systems Operations Facilitator is responsible for the District's technological infrastructure including all networks, network security, data, and voice communication. This person facilitates ongoing District-wide needs assessment and systemically plans for the development and implementation of new, efficient, and effective operating systems that maximize District resources.

The Systems Operations Facilitator administers the planning, design, research and acquisition of new hardware including maintenance and recommendations of needed upgrades. The person in this role monitors servers and CPUs, creates and deploys images for various computers throughout the District, and acts as a technical resource.

The Technology Technician is primarily responsible for providing customer service in maintaining, repairing, and troubleshooting hardware and software problems. This position is accountable for application installs, updates, and resolutions and in assisting in the testing and moving of equipment. The technology technician is required to maintain commonly-used concepts, practices, and procedures within the IT field and relies on instructions and pre-established guidelines to perform the functions of the job.

Computer lab assistants are housed at each of the five instructional locations and are responsible for assisting the instructional staff when assistance is needed with general technical support.

Hardware Infrastructure

The District has 30 HP servers. Each school building has a Proliant DL380 functioning as a Domain Controller, file server, DNS, WINS and DHCP server. They also have a Proliant ML110G4 server running Microsoft's ISA software. The District's central office contains 16 Proliant DL380 servers and one DELL GX150 server. The DELL server runs our Citrix web interface, while the Proliant servers break down as follows:

- 1 Primary Domain Controller, file, print, DNS, WINS, and DHCP server
- 1 Exchange 2003 server
- 1 Excent application server
- 1 ISA / Web server
- 1 SQL server
- 1 Symantec Backup server
- 1 Student Information server
- 1 STI HomePlus server
- 1 server for testing
- 7 Citrix servers

The junior high also has three Citrix servers. All of these servers are running either Microsoft Server 2000 or 2003.

Inter office data and voice communication are supplied by AT&T leased T1.5 lines connecting each instructional building to the District office. A Cisco 1800 router is located at each one of the schools, with a Cisco 2800 at the District office. A WatchGuard Firebox X750 serves as our District firewall.

All voice communications are routed to a central PBX located at both the district office and at the junior high school. Our servers are analog and connect to the AT&T (formally SBC) using two ISDN BRI connections.

The district has 100 Mbs network connection to all classrooms, lab stations and staff work locations. Cat 5 and Cat 5e cabling is used throughout the district. Each classroom has a WYSE Thin Client, a HP workstation, or both. Teachers and staff use Citrix to connect to and use hosted applications provided by the central district office using the dedicated internal communications link to each instructional facility. Microsoft Office, Email and the student information system (SIS) are the most widely used applications.

Internet traffic from each instructional building is routed directly to Comcast from each location. This was a recent upgrade. Prior to Comcast all traffic from all the buildings was routed to a single T1.5 located at the district office. Now all 4 elementary and 1 Junior high school have a dedicated high-speed access to the Internet. All traffic is hosted using ISA Server 2004 with Surfcontrol as the Web filtering application.

Along with the Backup server running Symantec Backup Exec 11d, the district uses a Netgear ReadyNAS 1100 Network Attached Storage device for additional backup space.

Each of the instructional buildings has an Integral Security camera system throughout the building. Three of the buildings also have a SecuraKey Access Control system that controls entry to the buildings. We are in the process of setting up a system to do finger printing and background checks for visitors and employees.

Three of the buildings have 3Com Wireless 8760 access points covering the entire buildings. The two other schools have Compaq WL510 Wireless Enterprise Access Point units throughout the buildings.

Desktop Computers													
Location	Computer Age	Total Desktop Computers			High Speed Access >=56k			Low Speed Access <56k			No Internet Access		
		PC	Mac	Total	PC	Mac	Total	PC	Mac	Total	PC	Mac	Total
Instructional Classroom	Under 2 years	25	0	25	25	0	25	0	0	0	0	0	0
	2-5 years	66	0	66	66	0	66	0	0	0	0	0	0
	5+ years	46	0	46	46	0	46	0	0	0	0	0	0
	SubTotal	137	0	137	137	0	137	0	0	0	0	0	0
Dedicated Computer Lab	Under 2 years	0	0	0	0	0	0	0	0	0	0	0	0
	2-5 years	149	0	149	149	0	149	0	0	0	0	0	0
	5+ years	2	0	2	2	0	2	0	0	0	0	0	0
	SubTotal	151	0	151	151	0	151	0	0	0	0	0	0
Media Center/Library	Under 2 years	0	0	0	0	0	0	0	0	0	0	0	0
	2-5 years	21	0	21	21	0	21	0	0	0	0	0	0
	5+ years	7	0	7	7	0	7	0	0	0	0	0	0
	SubTotal	28	0	28	28	0	28	0	0	0	0	0	0
Mobile Computer Lab	Under 2 years	0	0	0	0	0	0	0	0	0	0	0	0
	2-5 years	0	0	0	0	0	0	0	0	0	0	0	0
	5+ years	0	0	0	0	0	0	0	0	0	0	0	0
	SubTotal	0	0	0	0	0	0	0	0	0	0	0	0
Administrative Offices	Under 2 years	10	0	10	10	0	10	0	0	0	0	0	0
	2-5 years	30	0	30	30	0	30	0	0	0	0	0	0
	5+ years	10	0	10	10	0	10	0	0	0	0	0	0
	SubTotal	50	0	50	50	0	50	0	0	0	0	0	0
Teacher Offices	Under 2 years	0	0	0	0	0	0	0	0	0	0	0	0
	2-5 years	0	0	0	0	0	0	0	0	0	0	0	0
	5+ years	0	0	0	0	0	0	0	0	0	0	0	0
	SubTotal	0	0	0	0	0	0	0	0	0	0	0	0
Other Locations	Under 2 years	1	0	1	1	0	1	0	0	0	0	0	0
	2-5 years	8	0	8	8	0	8	0	0	0	0	0	0
	5+ years	1	0	1	1	0	1	0	0	0	0	0	0
	SubTotal	10	0	10	10	0	10	0	0	0	0	0	0

Laptop Computers													
Location	Computer Age	Total Desktop Computers			High Speed Access >=56k			Low Speed Access <56k			No Internet Access		
		PC	Mac	Total	PC	Mac	Total	PC	Mac	Total	PC	Mac	Total
Instructional Classroom	Under 2 years	0	0	0	0	0	0	0	0	0	0	0	0
	2-5 years	35	0	35	35	0	35	0	0	0	0	0	0
	5+ years	0	0	0	0	0	0	0	0	0	0	0	0
	SubTotal	35	0	35	35	0	35	0	0	0	0	0	0
Dedicated Computer Lab	Under 2 years	0	0	0	0	0	0	0	0	0	0	0	0
	2-5 years	0	0	0	0	0	0	0	0	0	0	0	0

	5+ years	0	0	0	0	0	0	0	0	0	0	0	0
	SubTotal	0	0	0	0	0	0	0	0	0	0	0	0
Media Center/Library	Under 2 years	0	0	0	0	0	0	0	0	0	0	0	0
	2-5 years	0	0	0	0	0	0	0	0	0	0	0	0
	5+ years	0	0	0	0	0	0	0	0	0	0	0	0
	SubTotal	0	0	0	0	0	0	0	0	0	0	0	0
Mobile Computer Lab	Under 2 years	38	0	38	38	0	38	0	0	0	0	0	0
	2-5 years	122	0	122	122	0	122	0	0	0	0	0	0
	5+ years	0	0	0	0	0	0	0	0	0	0	0	0
	SubTotal	160	0	160	160	0	160	0	0	0	0	0	0
Administrative Offices	Under 2 years	0	0	0	0	0	0	0	0	0	0	0	0
	2-5 years	3	0	3	3	0	3	0	0	0	0	0	0
	5+ years	0	0	0	0	0	0	0	0	0	0	0	0
	SubTotal	3	0	3	3	0	3	0	0	0	0	0	0
Teacher Offices	Under 2 years	0	0	0	0	0	0	0	0	0	0	0	0
	2-5 years	0	0	0	0	0	0	0	0	0	0	0	0
	5+ years	0	0	0	0	0	0	0	0	0	0	0	0
	SubTotal	0	0	0	0	0	0	0	0	0	0	0	0
Other Locations	Under 2 years	0	0	0	0	0	0	0	0	0	0	0	0
	2-5 years	13	0	13	13	0	13	0	0	0	0	0	0
	5+ years	0	0	0	0	0	0	0	0	0	0	0	0
	SubTotal	13	0	13	13	0	13	0	0	0	0	0	0

Servers													
Location	Computer Age	Total Desktop Computers			High Speed Access >=56k			Low Speed Access <56k			No Internet Access		
		PC	Mac	Total	PC	Mac	Total	PC	Mac	Total	PC	Mac	Total
Instructional Classroom	Under 2 years	0	0	0	0	0	0	0	0	0	0	0	0
	2-5 years	0	0	0	0	0	0	0	0	0	0	0	0
	5+ years	0	0	0	0	0	0	0	0	0	0	0	0
	SubTotal	0	0	0	0	0	0	0	0	0	0	0	0
Dedicated Computer Lab	Under 2 years	0	0	0	0	0	0	0	0	0	0	0	0
	2-5 years	0	0	0	0	0	0	0	0	0	0	0	0
	5+ years	0	0	0	0	0	0	0	0	0	0	0	0
	SubTotal	0	0	0	0	0	0	0	0	0	0	0	0
Media Center/Library	Under 2 years	0	0	0	0	0	0	0	0	0	0	0	0
	2-5 years	0	0	0	0	0	0	0	0	0	0	0	0
	5+ years	0	0	0	0	0	0	0	0	0	0	0	0
	SubTotal	0	0	0	0	0	0	0	0	0	0	0	0
Mobile Computer Lab	Under 2 years	0	0	0	0	0	0	0	0	0	0	0	0
	2-5 years	0	0	0	0	0	0	0	0	0	0	0	0
	5+ years	0	0	0	0	0	0	0	0	0	0	0	0
	SubTotal	0	0	0	0	0	0	0	0	0	0	0	0
Administrative Offices	Under 2 years	0	0	0	0	0	0	0	0	0	0	0	0
	2-5 years	0	0	0	0	0	0	0	0	0	0	0	0
	5+ years	0	0	0	0	0	0	0	0	0	0	0	0
	SubTotal	0	0	0	0	0	0	0	0	0	0	0	0
Teacher Offices	Under 2 years	0	0	0	0	0	0	0	0	0	0	0	0
	2-5 years	0	0	0	0	0	0	0	0	0	0	0	0
	5+ years	0	0	0	0	0	0	0	0	0	0	0	0
	SubTotal	0	0	0	0	0	0	0	0	0	0	0	0
Other Locations	Under 2 years	1	0	1	1	0	1	0	0	0	0	0	0
	2-5 years	26	0	26	26	0	26	0	0	0	0	0	0
	5+ years	3	0	3	3	0	3	0	0	0	0	0	0
	SubTotal	30	0	30	30	0	30	0	0	0	0	0	0

PC		
Location	Operating System	Number
Instructional Classroom	Windows Vista	0
	Windows XP (any version)	172
	Windows 2000 (any version)	0
	Windows 98	0
	Windows 95	0
	Other PC	0
	Subtotal	172
Dedicated Computer Lab	Windows Vista	0
	Windows XP (any version)	151
	Windows 2000 (any version)	0
	Windows 98	0
	Windows 95	0
	Other PC	0
	Subtotal	151
Media Center/Library	Windows Vista	0
	Windows XP (any version)	25
	Windows 2000 (any version)	3
	Windows 98	0
	Windows 95	0
	Other PC	0
	Subtotal	28
Mobile Computer Lab	Windows Vista	0
	Windows XP (any version)	160
	Windows 2000 (any version)	0
	Windows 98	0
	Windows 95	0
	Other PC	0
	Subtotal	160
Administrative Offices	Windows Vista	0
	Windows XP (any version)	52
	Windows 2000 (any version)	1
	Windows 98	0
	Windows 95	0
	Other PC	0
	Subtotal	53
Teacher Offices	Windows Vista	0
	Windows XP (any version)	0
	Windows 2000 (any version)	0
	Windows 98	0
	Windows 95	0
	Other PC	0
	Subtotal	0
Other Locations	Windows Vista	0
	Windows XP (any version)	22
	Windows 2000 (any version)	1
	Windows 98	0
	Windows 95	0
	Other PC	0
	Subtotal	23

Location	Equipment	Number
Instructional Classroom	Hubs	8
	Routers	0
	Switches	0
	Wireless Access Points	0
	Firewall	0
	Spam Filter	0
	Content Filter	0
	Intrusion Detector	0
Dedicated Computer Lab	Hubs	5
	Routers	0
	Switches	0
	Wireless Access Points	0
	Firewall	0
	Spam Filter	0
	Content Filter	0
	Intrusion Detector	0
Media Center/Library	Hubs	3
	Routers	0
	Switches	0
	Wireless Access Points	0
	Firewall	0
	Spam Filter	0
	Content Filter	0
	Intrusion Detector	0
Mobile Computer Lab	Hubs	1
	Routers	0
	Switches	0
	Wireless Access Points	0
	Firewall	0
	Spam Filter	0
	Content Filter	0
	Intrusion Detector	0
Administrative Offices	Hubs	1
	Routers	1
	Switches	8
	Wireless Access Points	0
	Firewall	0
	Spam Filter	0
	Content Filter	0
	Intrusion Detector	0
Teacher Offices	Hubs	0
	Routers	0
	Switches	0
	Wireless Access Points	0

	Firewall	0
	Spam Filter	0
	Content Filter	0
	Intrusion Detector	0
Other Locations	Hubs	2
	Routers	10
	Switches	41
	Wireless Access Points	33
	Firewall	1
	Spam Filter	1
	Content Filter	1
	Intrusion Detector	0

Software Type	
Yes	Networking
Yes	Utility Programs (Service Programs, File Compression, Disk Optimizers, etc.)
Yes	Personal Productivity Tools (Word Processing, Spreadsheet, Database, Communications)
Yes	Graphics (Business, Illustration, CAD, Animation, etc.)
Yes	Desktop Publishing
Yes	Business Software (Accounting, Mapping, Project Management, Desktop Organizers, etc.)
Yes	Programming packages (Computer Programming)
Yes	Student Information Management Systems
Yes	Filtering/Blocking Software
Yes	Anti-Virus
Yes	Other

Technology Type	Instructional	Administrative	Total
Networked Printers	194	33	227
Stand-alone Printers	0	0	0
Scanners	5	1	6
Digital Cameras	1	3	4
Camcorders/Movie Cameras	0	0	0
Satellite Dishes	0	0	0
Televisions	27	1	28
Video Microscopes	0	0	0
LCD Panels/Projection Devices	12	1	13
Fax Machines	0	11	11
Graphing Calculators	0	0	0
PDA's	0	0	0
Assistive/Adaptive Devices	0	0	0
GPS Devices	0	0	0
Science Probeware	0	0	0

Telecommunication Type	Instructional	Administrative	Total
Landline Service (How many phone numbers - this should reflect phone service put into the E-Rate 471 application, and Blackberries)	230	67	297
Mobile Phone Service (How many phone numbers - this should reflect mobile phone service put into the E-Rate 471 application and Blackberries)	0	25	25
Classrooms with Telephones			
	Number		
Classrooms with telephones	138		

Total Desktop Computers														
Type and Location	Classrooms Instructional		Dedicated Computer Lab		Media Center / Library		Mobile Computer Lab		Administrative Offices		Teachers Offices		Other Locations	
	PC	Mac	PC	Mac	PC	Mac	PC	Mac	PC	Mac	PC	Mac	PC	Mac
Computers														
Desktops	137	0	151	0	28	0	0	0	50	0	0	0	10	0
Laptops	35	0	0	0	0	0	160	0	3	0	0	0	13	0
Tablets	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Servers	0	0	0	0	0	0	0	0	0	0	0	0	30	0
	172	0	151	0	28	0	160	0	53	0	0	0	53	0
Total Computers in Each Location	Combined PC and Mac		Combined PC and Mac		Combined PC and Mac		Combined PC and Mac		Combined PC and Mac		Combined PC and Mac		Combined PC and Mac	
	172		151		28		160		53		0		53	
Students per Computer													4.6	

Computers with High Speed Internet Access:														
Type and Location	Classrooms Instructional		Dedicated Computer Lab		Media Center / Library		Mobile Computer Lab		Administrative Offices		Teachers Offices		Other Locations	
	PC	Mac	PC	Mac	PC	Mac	PC	Mac	PC	Mac	PC	Mac	PC	Mac
Computers														
Desktops	137	0	151	0	28	0	0	0	50	0	0	0	10	0
Laptops	35	0	0	0	0	0	160	0	3	0	0	0	13	0
Tablets	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Servers	0	0	0	0	0	0	0	0	0	0	0	0	30	0
	172	0	151	0	28	0	160	0	53	0	0	0	53	0
Total Computers in Each Location	Combined PC and Mac		Combined PC and Mac		Combined PC and Mac		Combined PC and Mac		Combined PC and Mac		Combined PC and Mac		Combined PC and Mac	
	172		151		28		160		53		0		53	
Students per Computer													4.6	

Computer Ages								
Number of desktop computers under 2 years old	Number of laptop computers under 2 years old	Number of tablet PCs under 2 years old	Number of desktop computers 2 - 5 years old	Number of laptop computers 2 - 5 years old	Number of tablet PCs 2 - 5 years old	Number of desktop computers older than 5 years	Number of laptop computers older than 5 years	Number of tablet PCs older than 5 years
36	38	0	274	173	0	66	0	0

Current IT Projects

Developing a comprehensive Information Technology Plan by participating in online research, school visitations, and collaborating with colleagues. Conducting technology summit sessions, synthesizing and formatting data, and communicating data to staff and administration. Performing data collection, price comparisons, and negotiated pricing. Comprising a structured, viable plan conducive to the District's current environment.

- **Benefit:** The technology plan establishes a framework that guides the systematic purchase of equipment that will allow teachers to utilize technologies in the classroom to enhance instruction and in student use for increased academic performance. The plan provides a basis by which to guide staff in opportunities to integrate technology by means of professional development and serves to lead the development of a technology curriculum.

Developing training session on advanced Microsoft Outlook features.

- **Benefit:** The learning of advanced application features leads to increased employee performance, a more efficient streamlined work environment, and provision of uniform, consistent data flow.

Proposal sought, pricing negotiated, server specs analyzed for STI Home, School-to-Home Connection for elementary buildings. STI Home allows parents and students to view grades, homework assignments, class schedules, and notes from teachers.

- **Benefit:** STI Home will improve home connections by providing additional information via the internet in providing parents immediate, up-to-date access of homework assignments, grades, and teacher comments.

Working in conjunction with the Systems Operations Facilitator in developing a technology disaster recovery plan.

- **Benefit:** To aid in systematic recovery of a possible disaster

Developed a Maintenance Work Order procedure that served as a step in moving from the current Intranet environment allowing for immediate, consistent retrieval and submission of maintenance work orders.

- **Benefit:** Eliminated numerous complaints of intranet maintenance work order failure. Provided a step in moving out of the limitations of an intranet environment.

Completed software evaluations of three automated library systems. Reviewed, priced, negotiated automated library systems with three vendors; Destiny, BookSystems, and Alexandria. BookSystems Atrium, a web-based library management package, was one of the three assessed by District Technology and the Media Center staff as a replacement of the Winnebago system. Proposed system has been requisitioned for approval.

- **Benefit:** Transformation of an outdated legacy library automation system into a web-based, integrated library system that will allow patrons remote access to search and interact with the curriculum, access web pages that support and enhance the curriculum, provide for textbook tracking not yet available in the District, and allow media center staff to immediately catalog and make available new reading materials.

New systems for the elementary buildings were priced, ordered, imaged, setup and tested with the READ180 program.

- **Benefit:** Researched based application utilized to increase a student's reading performance.

Performed walkthroughs, obtained price estimates, and scheduled camera installation at Parker Junior High.

- **Benefit:** Added security for both student and staff to provide for a safe, effective learning environment.

Developed an Internet Safety Curriculum to be presented to the Committee of the Whole the month of May. Arranged presentations on Internet Safety with the Illinois Attorney General's office for both parent and student as an added measure of meeting state mandates.

- **Benefit:** To provide strategies to ensure Internet safety at both home and at school

Worked on the old laptops that were replaced at Parker for replacement at elementary buildings. Reinstalled the operating system and programs, tested and added memory from spare machines, and pared down the msconfig file to speed logon time. Since these laptops are older and slower other, smaller operating systems were tested, such as Open Solaris, Ubuntu, and Minix to see if these Linux machines would run faster for our student needs.

- **Benefit:** Keep costs down by prolonging life of laptops. Assure elementary buildings full working laptop carts.

Initiated complete redevelopment of the District current website.

- **Benefit:** Enhanced communication to the school community.

Currently testing Internet Explorer 8 and Windows 7 for possible future use in the district.

- **Benefit:** Keep technology up-to-date with the idea of improved, more secure computing.

Attended a workshop on virtualization to see if it can benefit the district by consolidating servers, thus reducing the cost, space, and power needed to run our applications. Installed VMware Server and tested out creating multiple operating systems and multiple servers on one computer. We will need to continue to study if the initial cost of the program and hardware would be a good investment for possible future savings to the district.

- **Benefit:** Ascertain the possibility of taking advantage of server virtualization. May be able to improve the efficiency of your Windows Data Center, as well as lower our cost of ownership.

Downloaded and installed the Ghost Solution Suite for testing purposes. Created and deployed an image using the software. It was determined the high cost and operation of the software would not be beneficial at this time. Able to get the older version of Altiris imaging software to work with newer systems. By obtaining a copy of the Windows Preinstalled Environment 2.0, loading it in to Altiris, and injecting the drivers for our newer workstations, able to create and deploy an image of a workstation with the most up-to-date hardware. The department now has the capability to image and deploy any workstation in our district. Currently creating a library with clean, updated images of all computer types within the district.

- **Benefit:** Provide strategy for expedient deployment of system image to reduce user downtime and District Technology's recovery time.

Currently testing McAfee's ePolicy Orchestrator for a district anti-virus update server. This will give us a centralized management hub for our virus software and cut down on the need for workstations to go out to the web for updates.

- **Benefit:** Unified management, reporting, and auditing across our security and compliance products, as well as bandwidth savings.

Groupshield was causing substantial delays on our mail server. It was determined the version of Groupshield loaded on the mail server was not supported on Windows 2000. Extremely high CPU usage with SafeService and RPCserv processes, along with massive levels of I/O reads and writes was bogging down the server. After conferring with others, I reinstalled the previous version of Groupshield.

- **Benefit:** Continued virus support for our Exchange server at an improved speed.

Upgrades to the wireless access points in the 7th and 8th grade wings at Parker were completed.

- **Benefit:** To provide fast, efficient wireless access to all users within the buildings.

Currently looking at Microsoft Window Server Update Service as a possible summer replacement for the system we currently use, GFI.

- **Benefit:** Cost savings for the District. Increased administrative controls and improved update detection.

Worked on the Citrix servers in an attempt to create a more stable computing environment, better load balancing among the servers, and to speed up login and logoff times. Investigated ways to clean up users profiles. Created scripts to delete unnecessary files from their profiles and run them once a week to decrease the size going across the network. Installed Microsoft's User Profile Hive Cleanup Service to help with the slow logoff problems. Updated or reinstalled the applications on each Citrix server and published them for better load balancing. Each server was given an alternative address so users could access them through our firewall from home. Over the spring break turning off the roaming profiles for the Parker Citrix servers' users to assess the network traffic benefit.

- **Benefit: To increase the efficiency of network access, substantially decrease user login time, and eliminate unnecessary burden on servers and networks.**

Gap Analysis

Hardware

Data:

Parent Focus/Listening Group – 2007/2008 School Year
Teacher Focus/Listening Group – 2007/2008 School Year
Parent Survey – August of 2008
Reading Summit – 2008/2009 School Year
Technology Summit – 2008/2009 School Year
Inventory
Technology Budget

Support Data:

- Responses from Teacher Focus/Listening Group indicated that teachers requested access to more computers.
- Reading Summit responses indicated that to better support reading technology needs to be more accessible and that computers need to be available in every classroom.
- Hardware inventory indicates that all instructional staff do not have access to a personal computer throughout the school day with the exception of an available system in the computer lab.

Current Reality based upon Data Analysis:

- Inventories indicate that most District technology is inadequate.
- The District has a financial commitment to technology to ensure successful instructional and learning practices.

Based upon Analysis of Data the following Gaps have been identified:

- The District needs to upgrade outdated hardware to support a faster, more efficient network.
- The District needs to make hardware and peripheral purchases to support instructional practices.

Software

Data:

Parent Focus/Listening Group – 2007/2008 School Year
Teacher Focus/Listening Group – 2007/2008 School Year
Parent Survey – August of 2008
Reading Summit – 2008/2009 School Year
Technology Summit – 2008/2009 School Year
Board Minutes
Inventory
Technology Budget

Support Data:

- Responses from Parent Focus/Listening Group and School Board meeting statement indicated that better communication through the use of technology needs to be evident by online grades, homework assignments, and class schedules at the elementary level.
- Technology Summit minutes indicate that enhanced communications between our schools, district, and school community are a priority.

Current Reality based upon Data Analysis:

- Student Management software is in place.
- Analysis of software indicate that the functionality to provide online grades, homework assignments, and class schedules is not currently available to the District through our current package.
- Microsoft Office software is in place.
- Analysis of software indicates that the current version of MS Office 2000 is at the end of support life in June 2009.

Based upon Analysis of Data the following Gaps have been identified:

- The District needs to upgrade outdated software to secure security updates.
- The District needs to evaluate and purchase software applications to support communication between the schools and school community.

Network Infrastructure

Data:

Parent Focus/Listening Group – 2007/2008 School Year
Teacher Focus/Listening Group – 2007/2008 School Year
Parent Survey – August of 2008
Technology Summit – 2008/2009 School Year
Inventory
Technology Budget

Support Data:

Technology Summit minutes indicate that a faster, more efficient network is necessary to improve work efficiencies throughout the school day and to make technology integration a smooth, seamless transition.

Current Reality based upon Data Analysis:

- Inventories indicate that most District technology is inadequate, out-of-warranty, and at end of life.
- The District has a financial commitment to technology to ensure successful instructional and learning practices.

Based upon Analysis of Data the following Gaps have been identified:

The District needs to upgrade network infrastructure to provide an infallible network

Governance Model

The governance model chosen for this plan is reflective of thought derived from school visitations, research, and collaboration. This model provides structure conducive to our current technology environment in laying the foundation for establishment of, and futuristic growth, of the district's technology.

Listening\Focus Groups provided forums for exchange of ideas between the school community and administrators. Insight and suggestions for improvements in the area of technology were documented and communicated. The Reading Summit served as another forum of derived insight in how technology could serve to help increase student progress and growth in the area of reading.

The Technology Summit Committee members were brought together with a consensus model approach. The primary role of each of the participants was to look at technology and technological change and how it applies to facilitating change in the current educational environment. The primary role of the participants was to offer directives in the development of a 3 year cascade.

The Universal Service Fund E-Rate program states that district long-range plans must address four essential elements.

- set clear goals and realistic strategies for using telecommunications and information technology to improve education services
- maintain professional development strategies to ensure that staff know how to use these new technologies to improve education services
- assess telecommunication services, hardware, software, and other services that will be needed to improve education services
- sufficient budget to acquire and support the non-discounted elements of the plan: the hardware, software, professional development and other services that will be needed to implement the strategy

The five technology focus areas serve to guide the district in acquiring the necessary resources through the appropriate actions by setting clear goals, recognizing professional development strategies, assessing hardware and software resources, and budgeting

Summary

Flossmoor School District 161 serves the needs of a diverse student body. One of the most demanding aspects of working in today’s classroom is accommodating the numerous academic levels of students entering school. Finding ways to engage students to ensure academic success has become a critical aspect of teaching. In integrating technology teachers can help to involve students in meaningful learning activities and allow students to apply knowledge in ways that make sense to them.

The District’s technology plan will be phased in over a five-year span and will be reviewed, revised, and updated yearly. The technology plan of District 161 will organize a coherent approach to the acquisition, implementation, and integration of technology. The plan will help prepare students to succeed in a technologically oriented society as well as outline endeavors to help staff and students use technology effectively.

The Technology Plan has been developed based on two perspectives:

District Technology Services: Technologies which are critical in meeting the future needs of student, staff, and administration. To position the District for the future, hardware purchases will be necessary to provide an adaptive environment to enable delivery of technologies to meet the goals and objectives established by the Technology Summit Committee members.

Data and Communications: Technologies that will enhance the District’s future ability to enhance data communications between schools, District, and school community.

The District Technology Services and Data and Communications offer opportunities for the District to come out of a limited Citrix environment and provide for a fast, efficient network. Teachers will be given an environment to effectively integrate technology within the classroom, students will be given access to technology as an element in the provision of high quality programs, and staff, Administration, and the school community will be communicated data.

The needed technologies require a number of technology solutions which will be beneficial for the District as a whole. Technology solutions to be applied:

Technology Focus Area Goals	Technology Solutions to be Applied	Expected Benefits
Students will utilize technology to enhance academic performance, support learning in the classroom, and to prepare them for technology use in the future	<ul style="list-style-type: none"> · Computer lab personal computer replacement · Laptop replacement · Mini Notebook personal computers 	<ul style="list-style-type: none"> ▪ Utility cost savings ▪ Increased system availability ▪ Involvement in meaningful learning activities ▪ Broader opportunity for applied knowledge ▪ Broader classroom experiences ▪ Published works
Teachers use and apply technologies to enhance instruction, student learning, and student achievement	<ul style="list-style-type: none"> · Personal computers as teacher workstation · SmartBoards 	<ul style="list-style-type: none"> ▪ Utility cost savings ▪ Increased system response time ▪ Differentiated Instruction

	<ul style="list-style-type: none"> · Projectors · Discovery Streaming 	<ul style="list-style-type: none"> ▪ Additional content deliverable material ▪ Enhanced support of current curriculum ▪ Increased teacher collaboration ▪ Reflective of Best practices ▪ Alleviate out-of-warranty servers
Equitable access to technology for all students and staff	<ul style="list-style-type: none"> · Automated library system 	
District Technology will maintain and improve technical support as measured by completed TrackIt work orders	<ul style="list-style-type: none"> · Internet upgrade to fiber · Servers · Routers · Switches 	<ul style="list-style-type: none"> ▪ Faster, reliable network ▪ Knowledge based decision support ▪ Improved tracking ▪ Consistent practices
Technology will be used to enhance communications between our schools, District, and school community	<ul style="list-style-type: none"> · Student Information System (web-based) · Microsoft Sharepoint 	<ul style="list-style-type: none"> ▪ Consolidated District database ▪ Web-based user interface ▪ Windows certified platform ▪ Increased communication ▪ Reduction in hardcopy costs ▪ Shared knowledge for greater efficiency

Solutions	Priority	School Year 2008-2009				School Year 2009-2010				School Year 2010-2011				School Year 2011-2012				School Year 2012-2013			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
STUDENT SOLUTIONS																					
Computer lab personal computer replacement	H				■	■				■	■										
Laptop replacement	M				■	■				■	■			■	■						
Mini Notebook personal computers	L									■	■			■	■						
TEACHER SOLUTIONS																					
Personal Computers as teacher workstation	H				■	■				■	■										
SmartBoards	H				■	■				■	■			■	■					■	■
Projectors	H					■				■	■			■	■					■	■
Building Computer Technician	L																			■	■
Discovery Streaming	L													■	■						
DATA COMMUNICATION SOLUTIONS																					
Student Management Systems (web-based)	H									■	■										
MicroSoft Sharepoint	L													■	■						
Automated Library System	H				■	■															
DISTRICT TECHNOLOGY CAPABILITY SOLUTIONS																					
Server replacement	M					■															
Router and Switch replacement	M									■	■			■	■						
Microsoft Office Shool Licensing Agreement	H									■	■										
Internet Annual Service (Upgrade T1 to fiber)	H									■	■										
Wireless Upgrade	M										■	■									
Exchange Server 2007	H				■	■															

Cost Initiatives	Notes	Priority	2008-	2009-	2010-	2011-	2012-
			2009	2010	2011	2012	2013
STUDENT SOLUTIONS							
Computer lab personal computer replacement		H		\$ 23,250	\$ 46,500	\$ 23,250	
Laptop replacement		M	\$ 14,700	\$ 14,700	\$ 29,400	\$ 14,700	\$ 14,700
Mini Notebook personal computers		L			\$ 4110	\$ 4110	\$ 4110
TEACHER SOLUTIONS							
Personal Computers as teacher workstation		H	\$ 66,300				\$ 23,250
SmartBoards		H		\$ 6645		\$ 6645	\$ 6645
Projectors		H		\$ 3843		\$ 3843	\$ 3843
Building Computer Technician		L					\$ 30,000
Discovery Streaming	1	L				\$ 1235	
DATA COMMUNICATION SOLUTIONS							
Student Management Systems (web-based)		H		\$ 50,000			
MicroSoft Sharepoint		L			\$ 15,000		
Automated Library		H	\$ 14,615				
DISTRICT TECHNOLOGY CAPABILITY SOLUTIONS							
Server replacement		M		\$ 2378	\$ 4756	\$ 2378	\$ 2378
Router and Switch replacement		M		\$ 400	\$ 800	\$ 400	
Microsoft Office School Licensing Agreement (includes OS, Microsoft Office, calcs)		H		\$ 25,953	\$ 25,953	\$ 25,953	\$ 25,953
Internet Annual Service (Upgrade T1 to fiber)		H		\$ 5000			
Exchange Server 2007		H	\$ 7027				
Notes:							
1) Yrly subscription							
			\$ 102,642	\$ 131,769	\$ 106,519	\$ 82,514	\$ 110,879

The Five Technology Focus Areas

I. Student Learning

Goal 1: Students will utilize technology to enhance academic performance, support learning in the classroom, and to prepare them for technology use in the future

Objective 1.1: Align curriculum with Student NETS to meet or exceed all state guidelines

Objective 1.2: Students will use technology to access data systems, collaborate, and share their work

Objective 1.3: Students will use digital tools and resources to identify solutions and make informed decisions

II. Teacher Preparation

Goal 2: Teachers use and apply technologies to enhance instruction, student learning, and student achievement

Objective 2.1: Teachers will utilize technology, when given the opportunity, in preparing and communicating lesson plans

Objective 2.2: Teachers will design effective, comprehensive, complete learning environments supported by technology which will promote academic success for all students

Objective 2.3: Teachers will demonstrate a knowledge of technology and software

III. Resource Distribution

Goal 3: Equitable access to technology for all students and staff.

Objective 3.1: Provide access to internet, computers, and all the peripherals needed to support the integration and use of technology.

Objective 3.2: Maintain an environment which makes it easy for staff to easily use technology inside and outside of District

IV. Technical Support

Goal 4: District Technology will maintain and improve technical support as measured by completed TrackIt work orders

Objective 4.1: Maintain technical support to support an environment conducive to technology integration

Objective 4.2: Maintain and improve infrastructure and computer system performance

V. Data & Communication

Goal 5: Technology will be used to enhance communications between our schools, district, and school community.

Objective 5.1: Increase communication between the buildings and school community by providing more via the Internet and district website

Objective 5.2: Improve home connections by providing more via the Internet

Action Plan

Student Learning Action Plan

Goal 1 Students will utilize technology to enhance academic performance, support learning in the classroom, and to prepare them for technology use in the future

GOAL 1: Students will utilize technology to enhance academic performance, support learning in the classroom, and to prepare them for technology use in the future.

Objective 1.1: Align curriculum with Student NETS to meet or exceed all state guidelines.

Objective 1.2: Students will use technology to access data systems, collaborate, and share their work.

Objective 1.3: Students will use digital tools and resources to identify solutions and make informed decisions.

ACTION STEPS	School Year	Person Responsible	Technology Focus Area
Develop a grade specific technology curriculum to create an evolving continuum of technology skills so that a foundation is established and build upon each year for all students to include digital citizenship education and support of the technology class at the junior high level.	2009/2010	Technology Summit subcommittee, Director of Instructional Tech	S 1.1
Develop a schedule allowing students appropriate time to learn and implement technology into the curriculum by providing students sufficient access to a computer.	2010/2011	Building Principals	S 1.2
Students will develop cultural understanding and global awareness by engaging with learners of other cultures.	2011/2012	Classroom teachers	S1.2
Students will be educated on Internet safety and provided guidelines for use	2009/2010	Classroom teachers; Director of Instructional Tech	
Students will utilize technology for assessments	2010/2011	Classroom teachers	
Students will utilize technology to participate in projects which enhance concepts	2009/2010	Classroom teachers	S 1.1, S 1.3
Students will evaluate which resources and applications are appropriate for individual assignments	2010/2011	Classroom teachers	S 1.1, S 1.2
Provide student access to web portal which will allow students to communicate and share within their building.	2010/2011		

Teacher Preparation Action Plan

Goal 2 Teachers use and apply technologies to enhance instruction, student learning, and student achievement

GOAL 2: Teachers use and apply technologies to enhance instruction, student learning, and student achievement.				
Objective 2.1: Teachers will utilize technology, when given the opportunity, in preparing and communicating lesson plans				
Objective 2.2: Teachers will design effective, comprehensive, complete learning environments supported by technology which will promote academic success for all students.				
Objective 2.3: Teachers will demonstrate a knowledge of technology and software.				
ACTION STEPS	Beginning Date	Person Responsible		Technology Focus Area
Demonstrate active participation in the use of technology that supports collaboration, learning, and productivity.	2009/2010	Classroom teachers		T 2.4
Require teachers to devote ten percent of their curriculum time towards technology use; assessment, lesson presentation, student learning.	2010/2011	Building Principals		T 2.3
Provide opportunities for teacher collaboration to share technology integration strategies on how to best use technology within the classroom.		Building Principals		T 2.2, T 2.3, T 2.4
Align curriculum in each subject area to technology goals by working with subject area committees.	2009/2010	Curriculum Committee members, Technology Summit Committee members		T 2.3, T 2.4
Teachers will attend district technology training sessions on teacher institute days and learn through online academies, tutorials, and by ongoing discussions in team/building meetings.	2009/2010	Building Principals		T 2.1

Resource Distribution Action Plan

Goal 3 Equitable access to technology for all students and staff

GOAL 3: Equitable access to technology for all students and staff.			
Objective 3.1: Provide access to internet, computers, and all the peripherals needed to support the integration and use of technology.			
Objective 3.2: Maintain an environment which makes it easy for staff to easily use technology inside and outside of the district.			
ACTION STEPS	Beginning Date	Person Responsible	Technology Focus Area
Communicate the District Technology Plan on an annual basis with all staff.	2009/2010	Director of Instructional Tech	R 3.2
Replace current library software with a new automated library system which will allow students and staff to access library data store outside of the District and permit textbook tracking.	2008/2009	District Technology	R 3.1
Provide every educator with a teacher workstation.	2008/2009	District Technology	R 3.1
Provide, at teacher's discretion, classroom computers.	2010/2011	District Technology	R 3.1
Provide Interactive White Boards at one pr grade level at each of the elementary buildings and as the budget allows for Parker Junior High.	2008/2009	District Technology	R 3.2
Provide Comcast free Classroom cable to each of the buildings.	2009/2010	District Technology	R 3.2
Add a computer lab at Parker Junior High for whole class instruction.	2012		R 3.2
Implement a consistent district-wide platform to provide compatibility from building to building.	2008/2009	District Technology	R 3.1, R 3.2
Replace laptops at each of the elementary buildings as the budget allows	2008/2009	District Technology	R 3.1

Technical Support Action Plan

Goal 4 District Technology will maintain and improve technical support as measured by completed TrackIt work orders

GOAL 4: District Technology will maintain and improve technical support as measured by completed TrackIt work orders				
Objective 4.1: Maintain technical support to support an environment conducive to technology integration				
Objective 4.2: Maintain and improve infrastructure and computer system performance				
ACTION STEPS	Beginning Date	Person Responsible		Technology Focus Area
The district will implement and modify accordingly the District-wide Technology Curriculum five year cascade plan	2008/2009	Director of Instructional Technology, Technology Summit committee members		T 4.1
Resolve 85% of technical problems district wide within 48 hours of reported problem	2009/2010	District Technology		T 4.1
Create and execute a consistent wireless environment within every building to allow an optimum amount of users to utilize the network	2010/2011	Systems Operations Facilitator		T 4.2
Hire a computer educator/technician for each building	2012	Superintendent, Building Principals		T 4.1
Provide online knowledge base as a technology guide for recurring system requests	05/08	Director of Instructional Technology		T 4.1

Data & Communication Action Plan

Goal 5 Technology will be used to enhance communications between our schools, district, and school community.

GOAL 5: Technology will be used to enhance communications between our schools, district, and school community.				
Objective 5.1: Increase communication between the buildings and school community by providing more via the Internet and District web site				
Objective 5.2: Improve home connections by providing more via the Internet				
ACTION STEPS	Beginning Date	Person Responsible		Technology Focus Area
The district will enhance the current web site as an informational tool	2008/2009	District Technology		D 5.1, D 5.2
The district will evaluate and implement a web based student information system	2009/2010	Director of Instructional Technology, Subcommittee		D 5.2
The district will develop a systematic method of obtaining parent email addresses for parent communication	2009/2010	Director of Instructional Technology		D 5.2
Develop a web portal which will be a optimal resource to the Board of Education, District, Buildings, and School Community; to include, but not limited to parent flyers, building notifications, district announcements, and subject/assignment links	2009/2010	District Technology		D 5.1, D 5.2
Create accounts for the district staff for automated voicemail message transmission	2010/2011	Business Office, Director of Instructional Technology		D 5.1

Communication/Dissemination

The Flossmoor School District 161 Technology Plan will be communicated to all stakeholders. The plan will be presented for review to District Administrators in briefing and to the Board technology subcommittee. The plan will be brought before the Committee of the Whole April 29, 2009 and to the School Board for final approval .

Once approved, the technology plan will be available on the district website and a hard copy will be distributed to all Administrators and School Board members. An overview of the plan will be presented at each building during a staff meeting at the beginning of the 09-10 school year.

Monitoring and Evaluation

Technology Summit committee members will meet on a yearly basis to review and revise the technology plan and prioritize and adjust actions as needed. The outcomes of the meeting(s) will be communicated in an annual report and posted on the website.