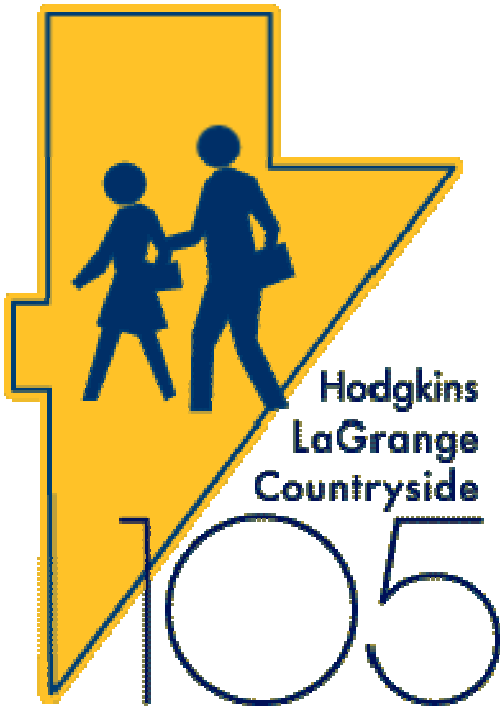
La Grange School District 105

Technology Plan
2006 – 2009



Section 1: Table of Contents

Section 2: Acknowledgements and Stakeholder Involvement

District #105 would like to thank the following individuals for their contributions, expertise, and support:

Members of the Board of Education of District #105

Since 1987, the School Board has supported the fusion of technology into daily educational experiences of the District's learning community. Through allocation of funds and approval of technology innovations, the District School Board has provided the students and staff with the means to achieve technological growth.

- Jan Kinsley, President
- Barb Baldassarre, Vice President
- Margery Bobysud, Secretary
- Barbara Ignarski
- Peg Peterson
- Mark Smith
- John Thomas

Technology Planning Committee

Formed in the Fall of 2005, the purpose of the Technology Planning Committee is to assist District #105 in accomplishing its technological mission. The Committee gathers information from both the school and general communities in an effort to create and implement the District's technology plan based on community resources and known "best" practices. The committee will continue to evaluate and execute the technology plan for District #105.

Name	Stakeholder Group	Committee Group Membership
Don Tufano	District Technology Coordinator	Core Group
Dave Seiden	District Technology Specialist	Core Group
John Thomas	Parent, School Board Member	Core Group
Celeste Pearson	Parent	Core Group
David Lux	Parent	Core Group
Jim Anfield	Parent	Core Group
Susan Blazek	Parent	Resource Group
Bob Poggensee	Parent	Resource Group
Prisilla Brucato	Teacher	Resource Group
Jim O'Malley	Parent	Resource Group
Cathy Nestlinger	District Instructional	Resource Group

	Technology Specialist	
Ruth Suominen	Special Education Teacher	Resource Group
Glen Wielgos	Parent	Resource Group
Bill Westrick	Parent	Resource Group
Sean R. Wellford	Parent	Resource Group
Glenn Schlichting	Assistant Superintendent	Resource Group
Mark Smith	Parent, School Board Member	Focus Group
Bud Bach	Community Member	Focus Group
Toby Casella	Parent	Focus Group
Denise Santor-Mitzit	Parent	Focus Group
Sue Grosskopf	Parent	Focus Group
Ed Hood	Principal	Focus Group
James Borden	Parent	Focus Group
Jill Swanson	Parent	Focus Group
Marianne Yates	Parent	Focus Group
Mary Concialdi	Parent	Focus Group
Julie Ann McGovern	Teacher	Focus Group
Joan Millsap	Parent, Library Coordinator	Resource Group
Laura Brown	Parent	Focus Group
Amy Synowiec	Teacher	Focus Group
Terry Rodey	Parent	Resource Group
Steve Bradbury	Parent	Focus Group
Leesa McHugh	Special Education Teacher	Focus Group

Technology Coaches Committee

The technology coaches support technological services in each of the five buildings of the District. The technology coaches provide on-site staff training and support in computer skill development, learning and utilizing new hardware and software, and developing ideas for merging computer technology with the curriculum.
The technology coaches meet quarterly with the Technology Coordinator to discuss current issues in technology, curriculum development and learning outcomes, technological needs of students and staff, professional development, and connectivity within and between buildings. The technology coaches are:

- Don Tufano, District Technology Coordinator
- Dave Seiden, District Technology Specialist
- Jay Svehla, Teacher, Gurrie Middle School
- Amy Synowiec, Teacher, Gurrie Middle School
- Joan Millsap, Library Coordinator, Hodgkins School
- John Signatur, Teacher, Hodgkins School
- Priscilla Brucato, Teacher, Ideal School
- Kathy Owens, Special Education Teacher, Seventh Avenue School

- Jill Ruelas, Teacher, Seventh Avenue School
- Susan Blazek, Library Coordinator, Spring Avenue School
- Liz Charlton, Teacher, Spring Avenue School
- Dr. Glenn Schlichting, Assistant Superintendent, Administrative Advisor to Technology Coach Committee

District Parent Teacher Organizations

The District's PTO's maintain a high level of participation in technological assistance, donation, and planning.
PTO Presidents:

- Andy Lynn and Rose Mary Lopez, Hodgkins School
- Stacy Lickman, Ideal School
- Jen Pigman, Seventh Avenue School
- Sue Grosskopf, Spring Avenue School
- Cathy Pavlik, Gurrie Middle School

Special Acknowledgements

- Thanks to the Intermediate Service Center - West 40 and the ISBE Area One Technology Center for their continuing support and assistance.
- Thanks to our consultant Don Kachur for assistance with organizational planning and group management strategies.

Stakeholder Involvement

LaGrange District #105 is a learning community which actively encourages involvement by parents, community, business, private schools, libraries, as well as, students, teachers, and administrators.

LaGrange District #105 has forged a strong partnership with several companies, both large corporations and locally owned businesses. These companies have donated supplies and products, including computer hardware and software. Companies have also participated in related classroom activities. The District's supporters include WallMart, IBM Corporation, Republic Bank, Bank of Countryside, United Parcel Service, Laidlaw Transportation, Applebee's Restaurant, Vulcan Materials, Target, Certified Grocery, and Rekstad Builders. Information exchange and public recognition of these partnerships will continue.

Community organizations that have participated in and support District programs include the City of Countryside, The Village of Hodgkins, the Park District of Hodgkins, the Hodgkins Police Department, the Lyons Township Supervisor, the LaGrange

Memorial Foundation, and the LaGrange Historical Society.

In November of 2005 the Technology Planning Committee was formed to obtain assistance from all district stakeholder groups to develop and evaluate the Technology Plan. An outside consultant was employed to assist in organizing and structuring the committee. The Technology Planning Committee was comprised of parents, community members, school board members, district administrators, teachers, and technology staff totaling around thirty altogether. To accommodate individual interests and varied levels of time commitments, the committee was organized into several sub-groups: the Core Group; Resource Groups for each of the technology plan sections 6a through 6d; and Focus groups.

The Core Group consisted of seven members and was established to serve as the driving force behind the committee. This group was responsible for organizing and providing focus to the larger committee, ensuring progress was made toward established timelines and goals, organizing sub-committees, and constructing the plan itself. The Core Group met more frequently than the full committee and required the largest time commitment to the committee and planning process of any members.

The Resource Groups were established to concentrate efforts in specific plan criteria areas. A resource group was established for each component within Section 6 (Action Plan) of the ISBE School District Technology Plan Blueprint and Criteria; Community Involvement, Curriculum and Instruction, Professional Development, and Technology and Sustainability. Members volunteered to participate on one or more of these groups based largely on interest and/or expertise. Resource groups met as needed or directed by the Core Group to develop and refine strategies which would be implemented to achieve the overall goals established within the technology plan.

The Focus Group consisted of the full technology committee. Throughout the planning process the Core Group and Resource Groups would report back to the full committee with ideas and the progress of the plan. The monthly technology meetings served largely as a forum for discussion and feedback on ideas and strategies developed to attain the established technology goals.

Technology Planning Committee Structure and Organization

Group	**Function**	**Responsibilities**
Core Group	• General organization and planning • Data Collection • Develop mission statement and goals • Develop and Evaluate gap analysis • Develop and Evaluate Strategies • Assess progress/status of technology plan with resource groups	• Prepare monthly committee meetings. • Meet additionally prior to monthly meetings or as needed • 20-50 hour commitment
Resource Groups ▫ Community Involvement ▫ Curriculum and Instruction ▫ Professional Development ▫ Deployment and Sustainability	• Assist Core Group • Data Collection • Conduct research in topic related to technology plan section • Analyze needs for each major plan section () • Develop Strategies	• Attend monthly committee meetings • Convene as needed • Up to 20 hour commitment
Focus Groups	• Conduct research in areas of special interest • Provide general input and feedback	• Attend monthly committee meetings • 8-10 hour commitment

Technology Planning Committee Meeting Schedule

Meeting Date	**Topic**	**Attendance**
November 16, 2005	Introduction / Background / Purpose and Structure of Committee	19

December 19, 2005	Communication Protocol / Establish Sub Groups / Review of Vision and Goals	26
January 18, 2006	Timeline / Survey Strategies	20
February 23, 2006	ISBE Blue Print / Survey Planning / Action Plans	15
March 15,2006	Review Survey Data / Resource Group Update / Timeline Revisions	14
April 12, 2006	Review of Action Plan / Timeline Revisions	

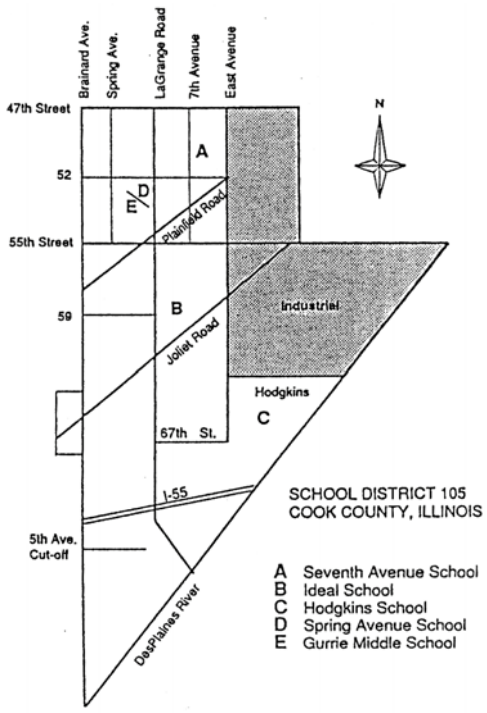
Beyond the Technology Planning Committee Meetings, additional information was gathered via five surveys. In February, 2006, District #105 created three surveys targeted to students, parents, and staff as part of the general school improvement planning process. To aid in technology planning, questions concentrating on the availability, usage, attitudes, and concerns surrounding technology were incorporated into the district-wide surveying efforts. Respondents were offered the choice of completing the surveys online over the Internet or on paper. Computers were made available during parent teacher conference nights for those who did not have Internet access at home. In addition, the Community Involvement Resource Group created two surveys, available both on paper and online, to gather information from the community and local businesses.

Also at the outset of the technology planning process, a blog was established to facilitate communication between committee members and to provide a forum for discussion and input. The March issue of the district's newsletter, the Blackboard, which is mailed to every district household, contained an article and contact information regarding the Technology Plan.

The Technology Planning Committee recognizes the need to continue to involve District shareholders in planning the direction of technology in the learning community. Section 6 and Section 8 of this Plan document the District's course of action for future community involvement.

Section 3: District / Community Profile

La Grange District #105 (South) includes areas of La Grange, Countryside, and Hodgkins. It is located in suburban Cook County, approximately one mile east of the DuPage County border. The District is 6.25 square miles in size and is bordered on the north by 47th street, the east by East Avenue, the south by 1-55, and the west by Brainard Avenue.



The District is comprised of 5 neighborhood schools, all with a complete range of services and specialized teachers:

District 105 Central Office
1001 South Spring Avenue
LaGrange, IL 60525
708-482-2700
Dr. James C. Ewing, Superintendent of Schools
Dr. Glenn T. Schlichting, Assistant Superintendent

Hodgkins School
6516 South Kane Avenue
Hodgkins, IL 60525
708-482-2740
Dr. Kathleen Keenan, Principal

Ideal School
9901 West 58th Street
Countryside, IL 60525
708-482-2750
Mrs. Mary Ann Savage, Principal

Seventh Avenue
701 South Seventh Avenue
LaGrange, IL 60525
708-482-2730
Mrs. Sherry Krzyzanski, Principal

Spring Avenue School
1001 South Spring Avenue
LaGrange, IL 60525
708-482-2710
Mrs. Elizabeth Webb, Principal

Gurrie Middle School
1001 South Spring Avenue
LaGrange, IL 60525
708-482-2720
Mr. Edmund Hood, Principal

The District is administered by the following members of the Board of Education:

Jan Zivkovich-Kinsley, President
Margery Bobysud, Secretary
Barb Baldassarre
Barbara A. Ignarski
Peggy Peterson
Mark Smith
John Thomas

District History

The first building in the District was erected in 1886 at the corner of East Avenue and Joliet Road. Students attended classes in that building until it was destroyed by fire in March of 1918. A new building, Ideal School, was constructed and a separate building, Hodgkins School, was built in Hodgkins. In 1920, a third building, Seventh Avenue School, was constructed "on the prairie" to house students in the area that was growing due to the expansion of General Motors Electromotive Railroad Engine Plant. As a result of further growth in the District's population, the decision was made to build a fourth facility, Spring Avenue School, in LaGrange in 1950. The middle school, Gurrie Middle School, was opened in 1957 as W. F. Gurrie Central Junior High School. The District reached its largest size in the 1970's and currently has a population of approximately 1100 students.

During the 2005-06 school year, District #105 employed 8 administrators, 101 certified full-time faculty members, 34 instructional aides, and 57 non-certified support personnel. The community is one that has consistently expected high academic standards for its children. Standards and expectations were set in the 1950's and 1960's by an upwardly mobile population that expected a superior education for their children. Today, the District is experiencing a new surge of young professional families that place a high value on education.

Demographics

The families of the District community range from a very low poverty level to a significantly high level of wealth. Some families are recent Hispanic immigrants while others have grown up in the school system. The three main communities of District #105 contain a mix of residential and commercial areas, industrial property, and a portion of the Cook County Forest Preserve. LaGrange is primarily made up of residential, single-family homes. The City of Countryside is a balance of commercial and residential areas, including single-family homes and a number of multiple-family dwellings. The Village of Hodgkins contains both single-family homes and multiple-family dwellings. According to the U.S. Census Bureau, 2000 Census of Population, and Northeastern Illinois Planning Commission, 2003, the population of Countryside will increase by 5% by the year 2030. The population of Hodgkins will increase by less than 0.5%, and the population of LaGrange will increase by 14%.

Existing Technology Infrastructure

Technology within District 105 is largely deployed in lab environments, typically within, or adjacent to, each school's Library Learning Center. Each of the five schools is equipped with a single lab consisting of at least 24 PC's. Gurrie Middle School has a single mobile, wireless notebook lab which was implemented during the 2005-06 school year. The notebooks are housed in a portable security cart equipped with 20 notebook computers and a wireless access point.

There are approximately 290 PC's deployed throughout District 105. Of these, approximately 35% will be more than five years old at the start of the 06-07 school year and more than 60% will be 2-3 years old. Of the PC's in the 2-3 years old range, 94% were purchased as "refurbished".

Each building has been cabled for data communications, but only one-third of the connections were professionally installed, tested, and certified. The remaining connections have been installed by on-site custodial personnel.

Typical Classroom Profile

The typical classroom in District 105 is equipped with a computer workstation and telephone. Standard equipment also includes an overhead projector and wall mounted projection screen. Other equipment, such as televisions, VCR/DVD players, LCD projectors, are either on mobile carts available for check out through the Library or stored in common areas for faculty to share. Every classroom PC can access the district's network and the Internet. For instructional use, equipment needs to be reserved, carted to the classroom, and hooked up by the teacher.

The conditions are less than optimal for the operation of electronic equipment in the typical classroom. At the elementary schools, a classroom will have three electrical outlets, while a Gurrie Middle School classroom will have two. Power is provided to electronic equipment on common electrical circuits. That is, there are no dedicated "clean" power lines to protect electronic equipment. Computer workstations are minimally protected by being plugged into power surge strips. With the exception of Seventh Avenue School, classrooms are not air-conditioned. In warm weather, electronic equipment is subject to operating temperatures exceeding manufacturer recommendations. Power irregularities and high temperatures cause poor system performance or failures and shorten component life, leading to reduced availability of technology for instruction, as well as additional costs for repair and replacement.

Equipment

- Desktop Personal Computer
- Monitor
- Inkjet Printer
- IP Telephone

Infrastructure

- Network
  - One Ethernet cable (Cat 5) drop
  - In-house, non-certified cabling/installation
- Electric Power
  - 2-3 duplex outlets
  - Common circuit

- Power strip surge protection

Typical workstation specifications

Desktop PC	Monitor	Inkjet Printer	Telephone
Refurbished Dell Optiplex 1.4 Ghz Celeron Processor 256 Mb RAM CD drive Floppy Drive 2 USB ports in rear of CPU	17 inch CRT display ViewSonic EA771 Built-in speakers	HP Deskjet 710c	Cisco IP Phone 7940 Series Two line

Section 4: Vision

The stakeholders and students of District 105 benefit from the increasing use of technology as an integral component of educational practices of the district. Our stakeholders' vision of technology and its intensifying role in society demonstrates a commitment to addressing current and future needs of our community. It is through the joint efforts of educators, students, parents, and community members that we will continually research, plan, and produce a dynamic technology model for our district's needs.

Vision Statement

While the population of our community is diverse, our learning goals are universal. It is our shared vision of District 105 to develop a comprehensive system of education that will prepare our all District staff, students, parents, and community members for the future. The purpose of our plan is to:

a. Use technology resources to enhance student learning and achieve high academic standards.
b. Incorporate challenging, motivating, and engaging educational experiences into established curricular areas.
c. Ensure the equitable and consistent use throughout the district of technology resources, researched-based instructional activities, and best practices.
d. Ensure that students use technology in a safe and supportive learning environment.
e. Ensure that technology resources are functional, effective, convenient and available for classrooms, and current.
f. Employ ongoing, accessible instructional technology support for students, staff and the community.

Profile of a Future Classroom in District 105

Historically, technology changes rapidly and there are no reasons to believe that will change in the near future. We understand that the vision of what the future classroom will look like is only a vision tempered by the current state of technology. It is our

expectation that our vision will be revised and modified during the process of the implementation of this technology plan.

We envision the classroom of the future being a "smart classroom", one in which technology tools are seamlessly integrated into the student learning environment. The concept is based on the premise that all of the learning tools that a student needs should be accessible within the classroom learning space, thereby allowing the teachers to capitalize on teachable moments using a variety of technology tools. Bringing technology into the classroom, such as notebooks, projectors, digital audio/visual, and digital microscopes allows students to utilize a variety of learning styles and allows quick access to investigative learning.

Students would be able to use clusters of notebook computers to conduct research, write, or learn mathematics concepts. With a ceiling-mounted LCD projector, the teacher will be able to easily show a class a writing sample, a website, or a math problem. With access to a "Smartboard", the teacher could not only display information but could use special markers to highlight digital content. This would be especially important when teaching students how to evaluate and read Internet content as well as using math software or websites.

Using a variety of technology tools allows teachers to effectively differentiate their instruction and tailor each student's learning activities to individual learning outcomes. For reading responses, notebooks can allow students to compose responses to text in digital reading journals. The teacher can gain quick and easy access to these responses and respond back. For writer's workshop, notebooks become extremely useful in fostering the creative process, as most creative writing in today's world is done on a word processor, which allows for easy editing and revising. A teacher can teach mini-lessons on writing techniques using a document projector that will project printed material onto a screen.

Differentiation of instruction can be optimally achieved by using diagnostic and prescriptive software especially in the area of mathematics. Using software on clusters of computers within the classroom will allow the teacher to easily monitor, track, and obtain progress reports on student learning. To truly differentiate instruction in mathematics, we need to be able to specifically identify a student's needs and specifically target instruction towards those needs. There are many software options available that are designed just for this purpose.

Having the software and hardware within the classroom makes a huge difference in how the teacher and students use instructional time. When the equipment and software are easily available in the classroom, the teacher can effectively use small increments of time and capitalize on student differences in speed, learning needs, and styles. Having digital still and video cameras available to students in the classroom will help incorporate a visual/audio component to the learning process. In addition, the more we encourage students to use hardware and software creatively, the more we are teaching independent "out of the box" thinking skills. Furthermore, the future workplace will require that our students be taught how to quickly adapt to new technologies. Having a variety of

software and hardware in the classroom will most closely resemble the environment that those students will experience as adults in the future.

Technology Glossary

Audio Playback System

This is a system whereby audio files, in any digital or analog form, can be played for a group of people to listen to.

Cluster

A cluster refers to a group of 4-6 computers that are placed in a classroom learning environment.

Digital audio[1]

Refers to the reproduction and transmission of sound stored in a digital format. This includes CDs as well as any sound files stored on a computer. In contrast, the telephone system (but not ISDN) is based on an analog representation of sound.

Document Camera / Projector

A projector that will capture an image of printed material (such as a page in a book) and display it on a display screen.

E-learning (electronic learning)

Term covering a wide set of applications and processes, such as web-based learning, computer-based learning, virtual classrooms, and digital collaboration. It includes the delivery of content via Internet, intranet/extranet (LAN/WAN), audio- and videotape, satellite broadcast, interactive TV, CD-ROM, and more.

Just-in-time (JIT)

Characteristic of e-learning in which learners are able to access the information they need exactly when they need it.

Laptop/Notebook

A computer that is portable and contains the CPU, keyboard, and display all in one small unit.

LAN

Local area network. Two or more computers, usually within a single room or building, that are connected so they can interact with each other.

LCD

Liquid Crystal Display. A type of display used especially in small portable electronic devices (digital watches & clocks, cell phones, PDAs, etc.) as well as laptop computers and some flat-panel monitors and TVs.

LCD Projector

A projector used to display the visual output from a computer monitor, VCR, or DVD player. Often the projectors are ceiling mounted to enable better viewing in a classroom.

Mimioboard (Also see Smartboard)

It is an interactive whiteboard that is connected to a computer and functions like a smartboard but it also can function as a regular whiteboard. You can also print and email class notes from the mimioboard.

Multimedia

Encompasses interactive text, images, sound, and color. Multimedia can be anything from a simple PowerPoint slide slow to a complex interactive simulation.

Network

Two or more computers that are connected so users can share files and devices (for example, printers, servers, and storage devices).

Section 5: Data Collection & Analysis

The data analysis for Community Involvement, Curriculum & Instruction, Professional Development and Technology Deployment was created from input by students, parents, faculty, support staff, administrators and District 105 School Board members. The data collected provided a clearer picture of our current situation as well as an idea for strategies to reach newly established goals for the revised technology plan.

In July, 2005, our school board adopted the "Board of Education Goals for School District 105" (Appendix A). These goals established a roadmap and put into place clear targets for all departments and curricular areas within District 105, including technology. These targets were instrumental in the design and development of this technology plan.

The goals established by our school board, all of which directly impacted the development and implementation of this technology plan, are as follows;

- **Ensure students achieve high academic standards**
    - All students that entered District 105 in Kindergarten will be reading on grade level by the end of third grade
    - 90% of the district students will make yearly progress equal to, or greater than national averages in reading and math
    - 90% of the district students that have been in District 105 at least two years will meet or exceed state standards on ISAT reading and math tests
    - Students will achieve district learning goals in all curricular areas
    - Students will be challenged and motivated by a rigorous, well-executed curriculum
    - Students will make a successful transition to high school
- **Ensure that students attend school in a safe and supportive learning environment**
- **Ensure that District 105 excels as an organization**
- **Ensure that District 105 excels in its business operations**
    - Organize and document the business operations of the district in order to prepare for a smooth transition for new personnel in the 2006-2007 school year
    - Implement a facilities management program that includes data on capital assets, a capital replacement schedule, and regular preventative maintenance

- **Ensure that District 105 builds a connected learning community**

    - Increase traffic on School and District Websites
    - Increase classroom, school, and district communication about curriculum, instruction, and student progress
    - Increase district-wide programs and activities (including all four elementary school communities)

- **Ensure that District 105 physical facilities present a positive image to the school community**

    - Improve building cleanliness and attractiveness
    - Keep buildings in good repair
    - Develop a plan for the continual upgrading of the facilities

The strategies and activities outlined in this plan were developed for the purpose of closing the gap between our current reality and our vision in terms of technology while simultaneously achieving the goals outlined by our school board. In doing so, the direction of technology and development of analysis tools will provide our faculty and staff with the resources necessary to make data-driven decisions. This will give teachers the information needed to reassess the current means of instructional delivery and set a new and more effective direction to their teaching methodology.

The following sources of data were collected in order to chart the gap between the current reality of the District's educational status and its vision.

The documents used, and the information gathered, include:

Community Involvement

- Board of Education Goals for School District 105 (Appendix A)
- School District 105 Parent Survey, Winter 2006 (Appendix B)
- Technology Planning Committee Meetings (Appendix E)

Curriculum & Instruction

- Board of Education Goals for School District 105 (Appendix A)
- School District 105 Parent Survey, Winter 2006 (Appendix B)
- School District 105 Student Survey, Winter 2006 (Appendix C)
- School District 105 Teacher Survey, Winter 2006 (Appendix D)
- Technology Planning Committee Meetings (Appendix E)
- District 105 Grade Level Technology Targets (Appendix F)
- Lyons Township High School Core Technology Standards (Appendix G)
- Illinois State Report Card, Fall 2005 (Appendix H)
- Instructional Technology Champions Program, Spring 2006 (Appendix I)

- District 105 Grade-Level Technology Targets (Appendix S)
- Lyons Township Articulation Committee Core Standards for Entering Freshmen (Appendix T)
- NCREL's Six Essential Learnings (Appendix U)
- 2005-06 Iowa Test of Basic Skills (ITBS) Scores (Appendix V)
- Smart Classrooms for Technology Champions (Appendix X)

Professional Development

- Board of Education Goals for School District 105 (Appendix A)
- School District 105 Parent Survey, Winter 2006 (Appendix B)
- School District 105 Student Survey, Winter 2006 (Appendix C)
- School District 105 Teacher Survey, Winter 2006 (Appendix D)
- Technology Planning Committee Meetings (Appendix E)
- District 105 Technology Manual (Appendix Y)

Technology Deployments and Sustainability

- Board of Education Goals for School District 105 (Appendix A)
- School District 105 Parent Survey, Winter 2006 (Appendix B)
- School District 105 Student Survey, Winter 2006 (Appendix C)
- School District 105 Teacher Survey, Winter 2006 (Appendix D)
- Technology Planning Committee Meetings (Appendix E)
- Instructional Technology Inventory Analysis (Appendix J)
- Hardware Inventory Analysis (Appendix K)
- Instructional Software Analysis (Appendix L)
- ISTE Technology Support Index Assessment (Appendix M)
- District 105 Network Diagram (Appendix N)
- District 105 Security Assessment (Appendix O)
- District 105 Infrastructure Site Assessment (Appendix P)
- District 105 Electrical Systems Evaluation (Appendix Q)
- District 105 Wireless Site Survey (Appendix R)
- Technology Requisitions Database District 105 (Appendix W)

Current Reality / Identified Gaps

Community Involvement

Current Reality
Parents indicated the desire for technology (Internet) safety awareness classes.
District 105 currently does not offer any technology courses for community members.
District 105 currently does not offer low-cost computer purchase options to the community.
The website does not reflect the events taking place within the community outside of school-related events.
The District 105 homepage is not very intuitive to the lay user.
Finding the District 105 homepage via search is very difficult.
Content on District 105 homepage is not updated often enough.
The event calendar on the District 105 website is not easily accessible.
District 105 has a very limited connection to the community, including local businesses.
District 105 has received limited funding through competitive grants.

Identified Gaps	**Strategies** **(see section 6a)**
District 105 needs to offer technology related courses to community members based on interest and need.	A1, A3
District 105 needs to continually connect to its community members, including local businesses, and solicit feedback via mailings and surveys.	A2, A5, A8
District 105 needs to update its website to be more intuitive, accessible, easier to use, and provide dynamic relevant content to its community within and beyond its schools.	A6, A7, A8
District 105 needs to make technology more available to parents, students, and the community through the use of its purchasing power and retired equipment.	A4

Curriculum & Instruction

Current Reality
Parents and teachers highly rank technology among all needs facing schools today
89% of teachers believe that technology skills are as important for students as the skills in other content areas.
Over 70% of the 3rd-8th students reported that "It's More Fun" to use computers for assignments.
74% of teachers report that students take a more active role in their learning when using technology.
92% of the teachers report that technology has impacted communication between home and school.
Over 50% of the teachers reported positive impact on student assessment, professional support, and monitoring student progress.
67% of teachers reported they use technology to connect curriculum to standards and 75% use technology to meet varying student needs.
58% of all teachers of teachers said that they (sometimes or regularly) incorporate multimedia into their lessons and design/incorporate grade level tech skills into their lessons.
89% of the parents feel that technology is integrated into the school curriculum to provide challenging learning experiences.
Elementary teachers surveyed report that they rarely assign homework that requires the use of technology.
Elementary students surveyed report using tech for homework about once a month or almost never..
Over half of students surveyed report limited (about once a month; almost never) school or school related use of word processing, the Internet for research, spreadsheets, or presentation software.
Elementary teachers reported they use content software between once a month and once a week. Middle school teachers reported its use as once a year.
48% of teachers surveyed stated there are not enough computers in my classroom.
Survey results indicate that students use technology more at home than they do at school.
Technology has had a positive impact on communication in the district.
On average, middle school parents report that they visit class and school websites between 1-2 times a week and 1-2 a month versus 3rd-6th parents who report that they visit class and school websites between 1-2 times a quarter.
In general, parents would like to see the use of Edline expanded to include assignments.
79% of middle school students indicate they check their grades on Edline at least once a week, while over 60% of 3rd-6th grade students report they almost never visit their classroom websites.
34% of middle school students indicated they check for homework assignments at least once a week.

Curriculum renewal committees are in place to provide a stronger framework for the integration of technology into each of the content areas.
The District continues to use a list of technology targets (Appendix S) for each grade level. These targets were developed based on the LTAC Core Standards for Entering Freshmen (Appendix T) and NCREL's Six Essential Learning's (Appendix U) and have begun to drive instruction in technology.
Student mastery of technology targets (Appendix S) is mostly being assessed informally through teacher observation and integration of targets into technology based classroom activities. The district has developed formal assessment tools for grades 6, 7, and 8.
The District has been using various delivery models for technology integration at the elementary buildings and the middle school. The models allow for flexible computer lab scheduling and greater opportunities for integrated instructional uses of technology.
Fourth through eighth grade students' scores on ITBS Math Computation subtests are significantly below their scores on Math Problem Solving and Concepts subtests.

Identified Gaps	**Strategies** **(see section 6b)**
The District needs to incorporate considerations of technology resources into the curriculum renewal process for each content area so the classroom use of technology to support the achievement of content learning targets (i.e. math, reading, science) will be increased.	**B2, B9, B11, B12, B14, B15**
The District needs to expand upon its system of assessing student progress toward achievement of technology grade level learning targets.	**B1, B12, B16, B17, B18**
The District needs to develop a district-wide technology integration delivery model that focuses on the technology grade level learning targets and reflects best practices.	**B1, B3, B4, B6, B7, B8, B9, B10, B13, B18, B20**
The District needs to make technology more easily accessible to staff and students.	**B3, B4, B5, B6, B7, B8, B10, B20**
The District needs to develop technology-based strategies to address poor student performance in math computation.	**B2, B11, B19**

Professional Development

Current Reality
An informal staff development program is in place which is discretionary and depends largely on just-in-time delivery addressing individual needs. After school training sessions have been offered, with in-house as well as university instructors, focusing on Edline.
68% of teachers reported that professional development has prepared them to integrate technology into the classroom.
90% of the teachers reported they use technology to increase their own learning and productivity.
48% of all teachers reported that they would like training to increase their own skills in using technology and gain more knowledge about content software.
64% of all teachers indicated a need to learn more about the integration of technology into the classroom.
Technology Coaches currently assist staff with professional development, but it is limited to training within Edline.
Some Technology Coaches have expressed interest in expanding the scope of the professional development which they could offer to staff.
There are limited online training opportunities available for District 105 personnel.
The current delivery models for technology integration do not allow for routine collaboration / training time during the school day for teachers, learning center coordinators, and technology staff.

Identified Gaps	**Strategies** (see section 6c)
Venues need to be provided to communicate between all staff on the topic of professional development. All staff needs to be informed on issues (e.g. the State Technology Standards, overall district goals) in order to provide the input necessary to impact the professional development program.	**C1, C2, C3, C7, C8**
A comprehensive professional development approach should be formalized addressing all staff: teachers, administrators, library/media personnel, and support staff if the Curriculum & Instruction and Deployment & Sustainability initiatives are to be a success. The program should be progressive in nature utilizing adult learning principles, diverse learning opportunities, flexible scheduling, and appropriate incentives. Basic troubleshooting needs to be a built-in component to all learning activities.	**C2, C3, C7, C8, C10, C12**
Training should continue to be provided to all data entry staff: building secretaries, administrative assistants, and department support staff. Data entry staff should understand how district data is shared between departments to support the comprehension of field definitions as well as the need for accurate data. Focus of training should be on uniform district-wide data entry and verification procedures. The goal should be to ensure data entry personnel know what data they are responsible for, where to place it, and how to enter data so others can use it.	**C11, C12, C13**

Training should be provided for all staff involved in data driven decision making: Teachers, administrators, principals, library/media personnel, and administrative assistants. Data analysis staff should understand the procedures for manipulating data: importing/exporting data, creating formulas, and creating pivot tables. Data analysis staff should also know how to effectively communicate using charts/graphs, pivot tables, and presentation or word processing software.	**C3, C6, C8, C11, C12**
Online learning opportunities need to be an alternative option for staff members as to accommodate schedules and user skill level. Online training needs to be provided onsite as well as remotely.	**C7, C13**
Teachers need to be supported with ongoing technology-related professional development opportunities.	**C2, C3, C4, C5, C8, C9, C10, C12, C13**

Technology Deployment and Sustainability

Current Reality
Most segments of the District's wide-area network (Appendix N) are well equipped with new hardware. Many Cisco routers and switches have been upgraded over the past 3-4 years as part of the IP telephony installation. Cisco has a process of bringing products to End Of Sale (EOS) and the subsequent support for the products. Some network hardware has been identified as falling under this policy and will not be supported by Cisco for the full term of this plan.
Out of approximately 800 data connections only approximately 30% have been professionally installed, tested and certified. The local-area network (LAN) backbones at three of the district's schools have not have been professionally installed, tested and certified.
The cable plant in all five (5) facilities is noncompliant with current NEC and TIA/EIA low voltage communication installation guidelines. The conditions observed create both an increased incidence of failure and potential safety and security concerns.
The current Main Distribution Frame (MDF) is housed in the Technology office at Gurrie Middle School and was installed recently by a professional communications contractor. The station cable terminations exceed the allowed cable jacket removal specification (.50") and the Cable tray system not properly grounded.
Each facility surveyed contains one or more Intermediate Distribution Frame (IDF) sites. The IDF's use of open racking offers no protection of the critical electronics from unauthorized access, physical damage, vandalism, etc. In some cases, the room where the exposed rack resides is utilized by students. High Voltage power is delivered to the equipment via power cords connected to the closest convenience receptacle. This increases the risk of disconnection and failure.
The current of horizontal copper station cabling in its present condition seriously impairs both the functionality and dependability of the cable plant, contains numerous code violations (NEC), and may also violate State and/or Local Fire Code.
Many of the existing station cables are inadequately identified and only limited documentation of the cable plant exists.
The fiber optic backbone cabling system which utilizes a multi-mode fiber optic cable to deliver critical voice and/or data connection services from each IDF to the MDF is not properly supported and routed, and should be installed in a protective corrugated plastic innerduct. No innerduct was observed.
There is currently no written cabling infrastructure specification in place that would specify standard cable types, installation standards, acceptable products, testing standards, and installer qualifications.
The WAN configuration allows for centralized services (Internet, content filtering, security, e-mail, telephony, voice mail, data back-up and recovery, virus protection, databases, etc.) to be distributed and upgraded efficiently and cost-effectively provided the WAN data links do not become congested due to increased usage.
One single Internet connection (DS-1) provides Internet services to all schools.
No replacement cycle for technology equipment has been defined in District 105 rated as "Deficient" according to the "Technology Support Index" (TSI, Appendix M) developed by the International Society for Technology in Education (ISTE) and the Gates Foundation.
Analysis of the D105 Technology Hardware Database (Appendix K) indicates there are approximately 290 PC's deployed District 105's schools and offices of which 35% will be more than 5 years old at the

start of the 06-07 school year and more than 60% will be 2 - 3 years old. 94% of the PC's in the 2 – 3 years-old range were "refurbished" at the time of purchase.
The student-to-computer ratio is currently at 4:1 and falls within the optimal 2-5:1 ratio according to the TSI.
Analysis of the D105 Software database (Appendix L) indicates that 96 % of District 105's computers are licensed to run an operating system (OS) currently supported by Microsoft.
A standardized set of productivity tools (including Microsoft Office) are distributed district-wide (Appendix).
There is a very limited amount of content related software because many previous titles were not compatible with the current (Windows 2000 / XP) operating systems being used within the district.
Limited wireless technologies are being used to enhance teacher / student access to available resources.
There is no schedule in place for periodical security audits of Internet firewall and wireless technologies.
There are no dedicated "computer technicians" employed by the school district. These functions are performed by the Director of Technology and the Technology Specialist. It is estimated that up to 50% of each position's time is spent on this function. This would constitute approximately (1) technician for the district. Computer-to-Technician ratio is over 250:1 and rated as "Deficient" according to the TSI.
No formula-driven staffing equations are used or considered when determining technology staffing needs.
The technical staff manages all deployment of new equipment and management of existing equipment requiring a reduction in instructional technology services throughout the school year.
A clear path for resolution of technical issues is in place. Electronic communication (e-mail), IP telephony, and voice-mail services are available to most everyone in the organization and are integrated into daily work so that it can be used for technical support. Some teachers serve as the contact point in the buildings, but infrequently perform technical support work.
The staff seeks limited help from online knowledgebase's for technical help due to availability of resources and district culture.
Contracted support is strategically used as a part of the overall support strategy to resolve complex technical issues.
Imaging software is used for delivery of new machines, and as a troubleshooting strategy. Software installed through the imaging process is comprehensive.
The District's Student/Fiscal/HR/Assessment systems are partially in place and at various stages of development. They are in the process of being integrated with other systems and productivity tools.
Remote access to individual network storage areas and District e-mail are available to all District users.
The Technology Department continues to use various databases to track and analyze purchasing (Appendix W), hardware inventory (Appendix K), software inventory (Appendix L), and desktop configuration information.
Evaluation of the district's electrical facilities determined that all classrooms could support the addition of equipment (up to 10 Amps) provided a District policy is put in place restricting the use of non-essential appliances (microwave ovens, refrigerators, coffee makers, etc.) within classrooms and offices and eliminating legacy equipment.
57% of middle school students cited slow / unreliable Internet connectivity and outdated computer

equipment at school as being obstacles for using technology. Many of these students were also concerned about outdated software on the computers.
Teachers expressed concerns about the lack of student access at home (63%), lack of planning time (42%); and a packed curriculum when contemplating the use of technology in the classroom (34%).

Identified Gaps	**Strategies** (see section 6d)
The District should upgrade / replace the majority of its data links and local-area network backbones over the next two years in order to establish a robust, stable, and compliant infrastructure which supports technology expansion.	**D1, D2, D3, D10**
The District should continue to provide its current set of centralized services and make provisions for additional services as circumstances and needs dictate.	**D5, D6, D8, D11, D15, D18, D23, D26**
The District should develop a replacement cycle for all technology equipment that takes into consideration current student: workstation ratios, changes in student population, technology needs in content areas, and over-all usage.	**D4, D5, D7, D9, D16, D19, D20**
The District should upgrade the electrical facilities infrastructure at four of its five schools over the next three years in order to establish a robust, stable, and compliant infrastructure which supports technology expansion.	**D10**
The District should expand the use of wireless technologies to enhance access to resources for staff and students.	**D2, D24**
The District's software purchase procedure should be a component of the curriculum renewal process and take into account changes in software compatibility with newer operating systems.	**D18**
The District should continue to provide, and expand upon, the current level of technical and instructional support services available to staff and students.	**D2, D3, 2, D13, D14, D17, D19, D21, D22, D25**
The District should implement a policy restricting the use of non-essential appliances (microwave ovens, refrigerators, coffee makers, etc.) within classrooms and offices.	**D10**

Section 6: Action Plan

Time line: Year 1 (2006-07 school year)
Year 2 (2007-08 school year)
Year 3 (2008-09 school year)

6a. Community Involvement

Goal 6a. Ensure that District 105 builds and harbors an interconnected learning community consisting of district students, staff, parents, and all residents, businesses and other organizations within District 105.

Activities / Strategies		Person Responsible	Estimated Cost	Timeframe	Funding Source
A1	Offer quarterly courses for community parents on Internet Safety.	Tech. Director Tech. Specialist Community Resource Group	Y1: $500 Y2: $500 Y3: $500 Y4: $500 Y5: $500	Y1 – Y5	District Funds
A2	Survey community members to determine additional courses to be offered.	Tech. Director Tech. Specialist Community Resource Group	Y1: $100 Y2: $100 Y3: $100 Y4: $100 Y5: $100	Y1 – Y5	District Funds
A3	Offer additional technology courses to community members based on survey data.	Tech. Director Tech. Specialist Community Resource Group	Y2: $1K Y3: $1K Y4: $2K Y5: $2K	Y2 – Y5	District Funds
A4	Offer low/no cost computers to community members.	Tech Director	0	Y1 – Y5	N/A
A5	Survey and connect with businesses within the District 105 community to build partnerships.	Tech. Director Community Resource Group	Y1: $100 Y2: $100 Y3: $100 Y4: $100 Y5: $100	Y1 – Y5	District Funds
A6	Redesign District 105 homepage to be: hosted internally, more intuitive, more dynamic, more relevant, and easier to access information	Tech. Specialist Community Resource Group	0	Y1 – Y5	N/A
A7	Register the district's web domain with search engines to increase visibility on WWW.	Tech. Director	Y1: $600 Y2: $600 Y3: $600 Y4: $600 Y5: $600	Y1 – Y5	District Funds
A8	Identify community groups to link information to/from the district homepage and calendar.	Tech. Specialist Community Resource Group	0	Y1 – Y5	N/A
A9	Pursue alternative forms of technology funding by competing for grants. Evaluate success of initiative inY2 to determine continuation.	Superintendent	Y1: $4K Y2: $8K	Y1 – Y2	District Funds

Success Indicators	
	Increased usage of District 105 website.

	Increased presence of relevant, dynamic content on District 105 website.
	Increased connection and communication with the community.
	Technology classes being offered to parents and community members.

6b. Curriculum & Instruction

Goal 6b.1: Ensure students achieve high academic standards.

Goal 6b.2: Ensure that the use of technology is employed in a consistent manner across classrooms and schools to support student achievement.

Activities / Strategies		Person Responsible	Estimated Cost	Timeframe	Funding Source
B1	Assess student progress toward achieving grade level learning targets (developed based upon NCREL's Six Essential Learnings) through administration of benchmark technology assessments at two grade levels – Spring 07. .	Tech Director Inst. Tech Specialist Tech Specialist Teachers	0	Y1 – Y5	N/A
B2	Technology will be wrapped into the curriculum renewal process for all content areas using science as model.	Tech Director Dir. of Curriculum Curriculum Committees	0	Y1 – Y5	N/A
B3	Adopt the "Technology Champions" program. (Appendix)	Superintendent Tech Director	0	Y1 – Y5	N/A
B4	Identified two "Champion Teachers" each year to develop / redesign a major instructional unit (common to grade level) to include grade level technology expectations (beginning second semester of Y1).	Tech Director Champion Teachers Dir. of Curriculum Tech Specialist Inst. Tech Specialist Principals	0	Y1 – Y5	N/A
B5	Purchase (3) mobile presentations carts per building.	Tech Director	Y1: $40K Y2: $20K	Y1 – Y2	District Funds
B6	Purchase (3) mobile computer labs for Gurrie Middle School over the next 3 years.	Tech Director	Y1: $26K Y2: $38K Y3: $26K	Y1 – Y2	
B7	Equip elementary classrooms with technology as defined in the "Smart Classrooms for Technology Champions" (Appendix X) over the next 5 years ie LCD's Y2, etc	Tech Director Tech Specialist	Y2: $225K Y3: $225K Y4: $225K Y5: $225K	Y2 – Y5	District Funds
B8	Equip middle school classrooms with all the technology as defined in the "Smart Classrooms for Technology Champions" (Appendix X), except for computer clusters, over the next 5 years.	Tech Director Tech Specialist	Y2: $30K Y3: $30K Y4: $30K Y5: $30K	Y2 – Y5	District Funds

B9	K-6 grade level teachers will use newly acquired technology in conjunction with the new science adoption.	Tech Director Teachers Dir. of Curriculum Tech Specialist Inst. Tech Specialist Principals	0	Y1 – Y5	N/A
B10	Purchase 5 mobile clusters of laptops (4-6) per elementary building over the next (3) years.	Tech Director	Y1: $85K Y2: $32K Y3: $32K	Y1	District Funds
B11	Grades 2-6 teachers will use math software to reinforce facts and basic computational skills and through use of new clusters (4-6) of computers.	Tech Director Teachers Tech Coaches Tech Specialist Inst. Tech Specialist Principals	Y1: $20K Y2: $20K Y3: $20K Y4: $20K Y5: $20K	Y1 – Y5	District Funds
B12	K-6 teachers will use typing software to reinforce keyboarding skills through use of new clusters (4-6) of computers.	Tech Director Teachers Tech Coaches Tech Specialist Inst. Tech Specialist Principals	Y1: $5K	Y1 – Y5	District Funds
B13	4-6 grade teachers will post homework assignments on Edline	Tech Director Teachers Tech Coaches Tech Specialist Inst. Tech Specialist Principals	0	Y1 – Y5	N/A
B14	Integrate decisions about the instructional uses of technology into the district curriculum renewal process.	Tech Director Dir. of Curriculum Inst. Tech Specialist Curric. Commitees	0	Y1 – Y5	N/A
B15	Integrate technology to support student learning in all content areas.	Tech Director Dir. of Curriculum Inst. Tech Specialist Curric. Commitees	0	Y1 – Y5	N/A
B16	Continued implementation of grade level technology learning targets that were developed based upon NCREL's Six Essential Learnings (Appendix U).	Tech Director Dir. of Curriculum Inst. Tech Specialist Tech Specialist Teachers	0	Y1 – Y5	N/A
B17	Review grade level technology learning expectations with the Lyons Township Articulation Committee.	Tech Director Dir. of Curriculum	0	Y1, Y3, Y5	N/A
B18	Move from "pull out" model of technology instruction to an integrated instructional approach	Tech Director Dir. of Curriculum Inst. Tech Specialist Tech Specialist Teachers	0	Y1 – Y5	N/A
B19	Continue developing a district website that supports improved student numeracy and literacy with interactive learning activities, especially during the summer months.	Dir. of Curriculum, Curriculum Committees Principals, Tech Director Tech Specialist	0	Y1 – Y5	N/A
B20	Purchase subscriptions to on-line reference resources.	Tech Director LLC Coordinators	Y1: $3K Y2: $3K Y3: $3K Y4: $3K Y5: $3K	Y1 – Y5	District Funds

B21	Investigate need for additional instructional technology support personnel.	Superintendent Tech Director Dir. of Curriculum	0	Y1	N/A

Success Indicators	
	Increased integration of technology into the instructional process.
	Creation of new units, integrated with technology, developed a each grade level.
	Increased student performance in grades 4-8 on ITBS Math Computation subtests.
	Creation of a technology-rich K-6 science curriculum
	Increased student performance on benchmark technology assessments, including keyboarding skills.

6c. Professional Development

Goal 6c.1: Ensure that district technology-related professional development incorporates best practices, accounts for varying ability levels, allows for anytime-anywhere accessibility, and supports District 105's long range goals.

Goal 6c.2: Ensure that district staff attains the necessary professional, technology proficiency to support District 105's long range goals.

Activities / Strategies		Person Responsible	Estimated Cost	Timeframe	Funding Source
C1	Perform needs assessment at each building and develop professional development plan.	Tech. Director, Tech. Specialist,	$0	Y1-Y5	N/A
C2	Offer in-house training classes in response to needs assessment.	Tech. Director, Tech. Specialist	Y1: $2K Y2: $2K Y3: $2K Y4: $2K Y5: $2K	Y1-Y5	District Funds
C3	Offer professional development related to Instructional Technology and best practices.	Tech. Director Tech. Specialist Inst. Tech Specialist	Y1: $2K Y2: $2K Y3: $2K Y4: $2K Y5: $2K	Y1-Y5	District Funds
C4	Continue /expand Technology Coach program to support staff training on all district technology initiatives.	Tech. Specialist, Technology Coaches	Y1: $15K Y2: $20K Y3: $20K Y4: $20K Y5: $25K	Y1-Y5	District Funds
C5	Continued training for Technology Coaches to support district technology initiatives.	Tech. Specialist, Technology Coaches	Y1: $1K Y2: $2K Y3: $2K Y4: $2K Y5: $3K	Y1-Y5	District Funds
C6	Train teachers on expansion of classroom web page system (Edline).	Technology Coaches, Tech Specialist	$0	Y1-Y5	N/A
C7	Subscribe to online services to support instructional technology staff.	Tech Director	Y1: $500 Y2: $750 Y3: $750 Y4: $750 Y5: $1K	Y1-Y5	District Funds
C8	Organize Staff Development opportunities to occur during school day.	Tech Director Tech Coaches Principals	Y2: $2K Y3: $2K Y4: $2K Y5: $2K	Y2-Y3	District Funds
C9	Continued development / revising printed Technology Manual detailing specific Technology procedures for all teachers (Appendix Y).	Tech. Director Tech. Specialist, Inst. Tech Specialist	Y1: $500 Y2: $500 Y3: $500 Y4: $500 Y5: $500	Y1-Y5	District Funds
C10	Support teacher attendance at technology conferences.	Tech Director Superintendent Principals	Y1: $2K Y2: $2K Y3: $3K Y4: $3K Y5: $3K	Y1-Y5	District Funds
C11	Offer data analysis course for teachers and administrators.	Tech Director Tech Specialist Business Manager.	Y1: $500 Y2: $500 Y3: $500 Y4: $500 Y5: $500	Y1-Y5	District Funds

C12	Provide training to staff in new student management system.	Tech Director Tech Specialist	Y1: $4K Y2: $4K Y3: $4K Y4: $4K Y5: $4K	Y1 – Y5	District Funds
C13	Allot time for SIS (Student Information System) development and database modifications.	Tech Director Tech. Specialist	$0	Y1	N/A

Success Indicators	
	In-house professional development opportunities based on teacher needs taking place.
	Professional development opportunities related to Instructional Technology, Technology skills integration, and best practices offered on a quarterly basis.
	Increased level of student-centered lesson plans incorporation technology.
	Increased use of student profile and performance data to target student instructional needs through the use of new student management system.

6d. Technology Deployment and Sustainability

Goal 6d.1: Provide appropriate, reliable (well-maintained), cost-effective, and easily accessible technology to support District 105's long range goals.

Goal 6d.:2 Provide a robust, flexible, and stable technology infrastructure ready to meet increasingly demanding future needs.

Activities / Strategies		Person Responsible	Estimated Cost	Timeframe	Funding Source
D1	Establish a written cabling infrastructure specification that would specify standard cable types, installation standards, acceptable products, testing standards, and installer qualifications.	Tech Director	N/A	Y1	N/A
D2	Update the cable plant in all five (5) facilities to be compliant with current NEC and TIA/EIA low voltage communication installation guidelines to eliminate incidence of failure and potential safety and security concerns. Provide for professional installation, certification, and patching of all data connections. Maximize current / install additional fiber optic and/or Category 6 data links between main distribution facilities and intermediate distribution facilities to maximize bandwidth over the each local area network's backbone.	Tech Director	Y1: $65K Y2: $85K Y3: $50K	Y1 – Y3	District Funds
D3	Add data links between each of the three elementary buildings and the district's technology hub, and include provisions for additional Internet connections to counter increased demand in bandwidth	Tech Director	Y1: $5K Y2: $5K Y3: $5K Y4: $5K Y5: $5K	Y1 – Y5	District Funds
D4	Implement a 5 year purchasing cycle on all PC's.	Tech Director	Y1: $55K Y2: $200K	Y1 – Y5	District Funds
D5	Implement a 5 year purchasing cycle on servers, including VOIP telephony server, to ensure continued replacement of out-of-date hardware..	Tech Director	Y1: $25K Y2: $35K Y3: $20K Y4: $10K Y5: $10K	Y1 – Y5	District Funds
D6	Continue professional maintenance and support of network resources (printing,	Tech Director	Y1: $15K Y2: $20K Y3: $15K	Y1 – Y5	District Funds

	Internet, intranet, file, applications, etc.).		Y4: $15K Y5: $15K		
D7	Phase out / replace antiquated technologies and peripherals.	Tech Director Tech Specialist	Y1: $5K Y2: $5K Y3: $5K Y4: $5K Y5: $5K	Y1 – Y5	District Funds
D8	Provide continued "Help Desk" support to all District personnel and students.	Tech Director Tech Specialist	N/A	Y1 – Y5	District Funds
D9	Purchase / Upgrade industrial tech equipment and modules.	Tech Director Jay Svehla	Y1: $10K Y2: $10K Y3: $5K	Y1 – Y5	District Funds
D10	Conduct survey of district facilities electrical plant, upgrade facilities based on recommendation of survey, and implement a policy restricting the use of non-essential appliances (microwave ovens, refrigerators, coffee makers, etc.) within classrooms and offices.	Tech Director Dir. of Building & Grounds	Y1: $15K Y2: $40K Y3: $40K Y4: $40K Y5: $40K	Y1 – Y5	District Funds
D11	Upgrade file servers as disk space capacity and reliability dictate.	Tech Director	Y1: $5K Y2: $5K Y3: $5K Y4: $5K Y5: $5K	Y1 – Y5	District Funds
D12	Implement Schools Interoperability Framework (SIF) on relevant systems (PowerSchool, Novell, and Follett) to increase productivity and limit data entry errors. (Appendix)	Tech Director	Y1: $9K	Y1	District Funds
D13	Purchase miscellaneous hardware replacement parts and services (repairs, replacement parts, etc.).	Tech Director	Y1: $5K Y2: $5K Y3: $5K Y4: $5K Y5: $5K	Y1 – Y5	District Funds
D14	Upgrade RAM in 165 existing PC's from 256MB to 512 MB	Tech Director	Y1: $6K	Y1	District Funds
D15	Purchase services & support renewals of existing licensed services / systems including but not limited to Novell, Follett, Anti-Virus, Backup Systems, PowerSchool, SIF Agents Renewals, ICN Internet, network hardware, telephony, and content filtering.	Tech Director	Y1: $27.5K Y2: $30K Y3: $30K Y4: $30K Y5: $30K	Y1 – Y5	District Funds
D16	Replacement of IP telephones due to normal usage.		Y1: $2K Y2: $2K Y3: $2K	Y1 – Y5	District Funds

			Y4: $2K Y5: $2K		
D17	Addition / replacement of power protection equipment.	Tech Director	Y1: $5K Y2: $5K Y3: $5K Y4: $5K Y5: $5K	Y1 – Y3	District Funds
D18	Network Management Software Upgrades (Anti-Virus, Desktop Management, etc.) for Microsoft Vista Operating System.	Tech Director	Y2: $20K Y3: $20K	Y2 – Y3	District Funds
D19	Purchase additional network laser printers at all schools within the next 2 years.	Tech Director	Y2: $8K	Y2	District Funds
D20	Replace existing (5) network color printers at all schools.	Tech Director	Y1: $12K	Y1	District Funds
D21	Hire summer technology helper to assist in deployment of new technology resources.	Tech Director	Y1: $4K Y2: $4K Y3: $5K Y4: $5K Y5: $5K	Y1 – Y5	District Funds
D22	Investigate need for additional technology support personnel to maintain increased level of technology resources and services.	Superintendent Tech Director	0	Y1	N/A
D23	Investigate implementation of online registration system within District 105.	Tech. Director Tech. Specialist Community Resource Group	0	Y1-Y2	N/A
D24	Install wireless access points within all schools to provide anytime/anywhere access to support best practices.	Tech Director	Y1: $7K Y2: $7K Y3: $7K Y4: $7K Y5: $7K	Y1 – Y5	District Funds
D25	Purchase set of batteries (20) and multi-bay chargers (2) for existing Gurrie Middle School mobile lab.	Tech Director	Y1: $5K	Y1	District Funds
D26	Purchase printer supplies for inkjet and laser printers	Tech Director	Y1: $10K Y2: $10K Y3: $10K Y4: $10K Y5: $10K	Y1 – Y5	District Funds

Success Indicators	
	Implementation of a scheduled replacement cycle for technology equipment.
	District-wide system for funding, purchasing, equipment/software evaluation.
	Presence of a robust, flexible, and stable infrastructure (data and electrical) that is ready to meet increasingly demanding future needs.
	Variety of reliable, easily accessible technology tools available to students and staff based on best practice research.

Section 7: Assessment and Evaluation

According to the Illinois State Board of Education School District Technology Plan Blueprint, the following qualities are necessary for effective evaluations:

- Identification of methods to be used for evaluation;
- Expected results/success indicators for each goal, strategy, and/or activity;
- Data collection methods used include bit ;
- Adequate, doable and practical evaluations.

The Technology Plan has clear goals with multiple indicators of success. Due to the evolving nature of technology and education, those responsible for the implementation of this plan will continue to identify and implement relevant technology standards to enhance our curriculum in order to improve student learning. Access to research studies that highlight "best practice" strategies will guide the evolution of this document.

Means of Assessment

Community Involvement	
Goal(s)	Ensure that District 105 builds and harbors an interconnected learning community consisting of district students, staff, parents, and all residents, businesses and other organizations within District 105.
Expected Results	Existence of a frequently accessed, highly interactive website for students, parents, community members and staff containing information and resources pertinent to all stakeholders. Existence of quarterly technology classes for parents and community members with course topics derived from survey data.
Indicators of Success	Increased usage of the District 105 website. Increased presence of relevant, dynamic content on the District 105 website. Increased connection and communication with the community. Technology classes being offered to parents and community members
Measurement Instrument(s)	Community and Parent Surveys. Evaluation of District 105 website by Community Involvement Resource Group critiquing the content which targets the needs of parents and community members and community organizations.
Frequency of Analysis	Annual evaluation of progress toward achieving the goal.

Curriculum and Instruction	
Goal(s)	Ensure students achieve high academic standards. Ensure that the use of technology is employed in a consistent manner across classrooms and schools to support student achievement.
Expected Results	The presence of a technology-rich educational environment across District 105 where access to technology resources are easily and quickly available. The presence of a technology-rich curriculum where relevant, real-world skills are integrated where appropriate into existing district-wide units throughout all content areas.

	The presence of, "Technology Champions" (Appendix) throughout the district who provide building-level leadership in technology integration. 90% or greater proficiency by students on benchmark technology assessments at grades 4, 6 and 8.
Indicators of Success	Increased integration of technology into the instructional process. Creation of new units, integrated with technology, developed at each grade level. Increased student performance in grades 4-8 on ITBS Math Computation subtests. Creation of a technology-rich K-6 science curriculum. Increased performance on benchmark technology assessments, including keyboarding skills.
Measurement Instrument(s)	Student Survey, Parent Survey, Teacher Survey, ITBS Assessments, Benchmark Technology Assessments, Student Artifacts
Frequency of Analysis	Annual evaluation of progress toward achieving the goal.

Professional Development	
Goal(s)	Ensure that district technology-related professional development incorporates best practices, accounts for varying ability levels, allows for anytime-anywhere accessibility, and supports District 105's long range goals. Ensure that district staff attains the necessary professional, technology proficiency to support District 105's long range goals.
Expected Results	Presence of flexible, technology-related learning opportunities for staff. An increased level of confidence with, and knowledge of, technology integration strategies among staff members. An increased level of confidence with, and knowledge of, accessing and analyzing student performance data among staff members.
Indicators of Success	In-house professional development opportunities based on teacher needs taking place. Professional development opportunities related to Instructional Technology, Technology skills integration, and best practices provided on a quarterly basis. Increased level of student-centered lesson plans incorporating technology. Increased use of student profile and performance data to target student instructional needs through the use of new student management system.
Measurement Instrument(s)	Teacher Survey, Student Artifacts
Frequency of Analysis	Annual evaluation of progress toward achieving the goal.

Deployment and Sustainability	
Goal(s)	Provide appropriate, reliable (well-maintained), cost-effective, and easily accessible technology to support District 105's long range goals. Provide a robust, flexible, and stable technology infrastructure ready to meet increasingly demanding future needs
Expected Results	Existence of a stable, robust wired (and wireless) data infrastructure. Existence of a stable electrical infrastructure.

	Existence of an environment where well-maintained, energy/cost-efficient, current technologies are readily available and easily-accessible throughout District 105. A student to computer ratio of 2:1 throughout District 105.
Indicators of Success	Implementation of a scheduled replacement cycle for technology equipment. Presence of a robust, flexible, and stable infrastructure (data and electrical) ready to meet increasingly demanding future needs. Variety of reliable, easily accessible technology tools available to students and staff based on best practice research. District-wide system for funding, purchasing, equipment/software evaluation.
Measurement Instrument(s)	Teacher Survey, Student Survey, Hardware Inventory Analysis
Frequency of Analysis	Annual evaluation of progress toward achieving the goal.

Adequate, doable and practical evaluations

Evaluation instruments are critical to the success of the Technology Plan. If we are to see evidence of success, we must have clear goals, measurable success indicators and current data. Collaboration with the Curriculum Teams, School Improvement Teams, Technology staff and School Board will help us to refine the evaluation instruments so that they measure and provide the most useful information required to improve student learning.

The Director of Technology will present a report each spring to the District 105 Board of Education on the progress of this technology plan and the achievement of the established goals and indicators of success. The level of success of this plan, as presented, will determine the commitment of funding by the school board for subsequent years of the plan.

Section 8: Timeline

Year 1 (2006-07 school year)

Community Involvement

Goal 6a. Ensure that District 105 builds and harbors an interconnected learning community consisting of district students, staff, parents, and all residents, businesses and other organizations within District 105.				
Activities / Strategies		**Person(s) Responsible**	**Estimated Cost**	**Funding Source**
A1	Offer quarterly courses for community parents on Internet Safety.	Tech. Director Tech. Specialist Community Resource Group	$0.5K	District Funds
A2	Survey community members to determine additional courses to be offered.	Tech. Director Tech. Specialist Community Resource Group	$0.1K	District Funds
A4	Offer low/no cost computers to community members.	Tech Director	0	N/A
A5	Survey and connect with businesses within the District 105 community to build partnerships.	Tech. Director Community Resource Group	$0.1K	District Funds
A6	Redesign District 105 homepage to be: hosted internally, more intuitive, more dynamic, more relevant, and easier to access information	Tech. Specialist Community Resource Group	0	N/A
A7	Register the district's web domain with search engines to increase visibility on WWW.	Tech. Director	$0.6K	District Funds
A8	Identify community groups to link information to/from the district homepage and calendar.	Tech. Specialist Community Resource Group	0	N/A
A9	Pursue alternative forms of technology funding by competing for grants. Evaluate success of initiative inY2 to determine continuation.	Superintendent	$4K	District Funds
		TOTAL	**$5.3K**	

Success Indicators	
	Increased usage of District 105 website.
	Increased presence of relevant, dynamic content on District 105 website.
	Increased connection and communication with the community.
	Technology classes being offered to parents and community members.

Curriculum & Instruction

Goal 6b.1: Ensure students achieve high academic standards.

Goal 6b.2: Ensure that the use of technology is employed in a consistent manner across classrooms and schools to support student achievement.

Activities / Strategies		Person(s) Responsible	Estimated Cost	Funding Source
B1	Assess student progress toward achieving grade level learning targets (developed based upon NCREL's Six Essential Learnings) through administration of benchmark technology assessments at two grade levels – Spring 07. .	Tech Director Inst. Tech Specialist Tech Specialist Teachers	0	N/A
B2	Technology will be wrapped into the curriculum renewal process for all content areas using science as model.	Tech Director Dir. of Curriculum Curriculum Committees	0	N/A
B3	Adopt the "Technology Champions" program. (Appendix X)	Superintendent Tech Director	0	N/A
B4	Identified (10) "Champion Teachers" to develop / redesign a major instructional unit (common to grade level) to include grade level technology expectations (beginning second semester of Y1).	Tech Director Champion Teachers Dir. of Curriculum Tech Specialist Inst. Tech Specialist Principals	0	N/A
B5	Purchase (2) mobile presentations carts (equipped with LCD projector & PC) per school.	Tech Director	$40K	District Funds
B6	Purchase (1) mobile computer lab (20 laptops) for Gurrie Middle School.	Tech Director	$26K	
B9	K-6 grade level teachers will use newly acquired technology in conjunction with the new science adoption.	Tech Director Teachers Dir. of Curriculum Tech Specialist Inst. Tech Specialist Principals	0	N/A
B10	Purchase (3) mobile clusters of laptops (4-6) per elementary school.	Tech Director	$85K	District Funds
B11	Grades 2-6 teachers will use math software to reinforce facts and basic computational skills and through use of new clusters (4-6) of computers.	Tech Director Teachers Tech Coaches Tech Specialist Inst. Tech Specialist Principals	$20K	District Funds

B12	K-6 teachers will use typing software to reinforce keyboarding skills through use of new clusters (4-6) of computers.	Tech Director Teachers Tech Coaches Tech Specialist Inst. Tech Specialist Principals	Y1: $5K	District Funds
B13	4-6 grade teachers will post homework assignments on Edline	Tech Director Teachers Tech Coaches Tech Specialist Inst. Tech Specialist Principals	0	N/A
B14	Integrate decisions about the instructional uses of technology into the district curriculum renewal process.	Tech Director Dir. of Curriculum Inst. Tech Specialist Curric. Commitees	0	N/A
B15	Integrate technology to support student learning in all content areas.	Tech Director Dir. of Curriculum Inst. Tech Specialist Curric. Commitees	0	N/A
B16	Continued implementation of grade level technology learning targets that were developed based upon NCREL's Six Essential Learnings (Appendix U).	Tech Director Dir. of Curriculum Inst. Tech Specialist Tech Specialist Teachers	0	N/A
B17	Review grade level technology learning expectations with the Lyons Township Articulation Committee.	Tech Director Dir. of Curriculum	0	N/A
B18	Move from "pull out" model of technology instruction to an integrated instructional approach	Tech Director Dir. of Curriculum Inst. Tech Specialist Tech Specialist Teachers	0	N/A
B19	Continue developing a district website that supports improved student numeracy and literacy with interactive learning activities, especially during the summer months.	Dir. of Curriculum, Curriculum Committees Principals, Tech Director Tech Specialist	0	N/A
B20	Purchase subscriptions to on-line reference resources.	Tech Director LLC Coordinators	$3K	District Funds
B21	Investigate need for additional instructional technology support personnel.	Superintendent Tech Director Dir. of Curriculum	0	N/A
		TOTAL	**$179K**	

Success Indicators	
	Increased integration of technology into the instructional process.
	Creation of new units, integrated with technology, developed a each grade level.

	Increased student performance in grades 4-8 on ITBS Math Computation subtests.
	Creation of a technology-rich K-6 science curriculum
	Increased student performance on benchmark technology assessments, including keyboarding skills.

Professional Development

Goal 6c.1: Ensure that district technology-related professional development incorporates best practices, accounts for varying ability levels, allows for anytime-anywhere accessibility, and supports District 105's long range goals.

Goal 6c.2: Ensure that district staff attains the necessary professional, technology proficiency to support District 105's long range goals.

Activities / Strategies		Person(s) Responsible	Estimated Cost	Funding Source
C1	Perform needs assessment at each building and develop professional development plan.	Tech. Director, Tech. Specialist,	$0	N/A
C2	Offer in-house training classes in response to needs assessment.	Tech. Director, Tech. Specialist	$2K	District Funds
C3	Offer professional development related to Instructional Technology and best practices.	Tech. Director Tech. Specialist Inst. Tech Specialist	$2K	District Funds
C4	Continue /expand Technology Coach program to support staff training on all district technology initiatives.	Tech. Specialist, Technology Coaches	$15K	District Funds
C5	Continued training for Technology Coaches to support district technology initiatives.	Tech. Specialist, Technology Coaches	$1K	District Funds
C6	Train teachers on expansion of classroom web page system (Edline).	Technology Coaches, Tech Specialist	$0	N/A
C7	Subscribe to online services to support instructional technology staff.	Tech Director	$0.5K	District Funds
C9	Continued development / revising printed Technology Manual detailing specific Technology procedures for all teachers (Appendix Y).	Tech. Director Tech. Specialist, Inst. Tech Specialist	$0.5K	District Funds
C10	Support teacher attendance at technology conferences.	Tech Director Superintendent Principals	$2K	District Funds
C11	Offer data analysis course for teachers and administrators.	Tech Director Tech Specialist Business Manager.	$0.5K	District Funds
C12	Provide training to staff in new student management system.	Tech Director Tech Specialist	$4K	District Funds
C13	Allot time for SIS (Student Information System) development and database modifications.	Tech Director Tech. Specialist	$0	N/A
		TOTAL	**$27.5K**	

Success Indicators	
	In-house professional development opportunities based on teacher needs taking place.
	Professional development opportunities related to Instructional Technology, Technology skills integration, and best practices offered on a quarterly basis.
	Increased level of student-centered lesson plans incorporation technology.
	Increased use of student profile and performance data to target student instructional needs through the use of new student management system.

Technology Deployment and Sustainability

Goal 6d.1: Provide appropriate, reliable (well-maintained), cost-effective, and easily accessible technology to support District 105's long range goals. *Goal 6d.:2 Provide a robust, flexible, and stable technology infrastructure ready to meet increasingly demanding future needs.*

Activities / Strategies		**Person(s) Responsible**	**Estimated Cost**	**Funding Source**
D1	Establish a written cabling infrastructure specification that would specify standard cable types, installation standards, acceptable products, testing standards, and installer qualifications.	Tech Director	N/A	N/A
D2	Update the cable plant in all five (5) facilities to be compliant with current NEC and TIA/EIA low voltage communication installation guidelines to eliminate incidence of failure and potential safety and security concerns. Provide for professional installation, certification, and patching of all data connections. Maximize current / install additional fiber optic and/or Category 6 data links between main distribution facilities and intermediate distribution facilities to maximize bandwidth over the each local area network's backbone.	Tech Director	$65K	District Funds
D3	Add data links between each of the three elementary buildings and the district's technology hub, and include provisions for additional Internet connections to counter increased demand in bandwidth	Tech Director	$5K	District Funds
D4	Implement a 5 year purchasing cycle on all PC's.	Tech Director	$52K	District Funds
D5	Implement a 5 year purchasing cycle on servers, including VOIP telephony server, to ensure continued replacement of out-of-date hardware..	Tech Director	$25K	District Funds
D6	Continue professional maintenance and support of network resources (printing,	Tech Director	$15K	District Funds

	Internet, intranet, file, applications, etc.).			
D7	Phase out / replace antiquated technologies and peripherals.	Tech Director Tech Specialist	$5K	District Funds
D8	Provide continued "Help Desk" support to all District personnel and students.	Tech Director Tech Specialist	N/A	District Funds
D9	Purchase / Upgrade industrial tech equipment and modules.	Tech Director Industrial Tech Teacher	$10K	District Funds
D10	Conduct survey of district facilities electrical plant and upgrade facilities based on recommendation of survey.	Tech Director Dir. of Building & Grounds	$15K	District Funds
D11	Upgrade file servers as disk space capacity and reliability dictate.	Tech Director	$5K	District Funds
D12	Implement Schools Interoperability Framework (SIF) on relevant systems (PowerSchool, Novell, and Follett) to increase productivity and limit data entry errors. (Appendix)	Tech Director	$9K	District Funds
D13	Purchase miscellaneous hardware replacement parts and services (repairs, replacement parts, etc.).	Tech Director	$5K	District Funds
D14	Upgrade RAM in 165 existing PC's from 256MB to 512 MB	Tech Director	$6K	District Funds
D15	Purchase services and support renewals of existing licensed services / systems including but not limited to: Novell, Follett, Edline, WorldBook, Electric Library, Reneseance Learning, and content filtering, .	Tech Director	$20K	District Funds
D16	Replacement of IP telephones due to normal usage.	Tech Director	$2K	District Funds
D17	Addition / replacement of power protection equipment.	Tech Director	$5K	District Funds
D19	Purchase (1) additional network laser printers at each elementary school.	Tech Director	$8K	District Funds
D20	Replace existing (5) network color printers at all schools.	Tech Director	$12K	District Funds

D21	Hire summer technology helper to assist in deployment of new technology resources.	Tech Director	$4K	District Funds
D22	Investigate need for additional technology support personnel to maintain increased level of technology resources and services.	Superintendent Tech Director	0	N/A
D23	Investigate implementation of online registration system within District 105.	Tech. Director Tech. Specialist Community Resource Group	0	N/A
D24	Install wireless access points to provide anytime/anywhere access to support best practices.	Tech Director	$7K	District Funds
D25	Purchase set of batteries (20) and multi-bay chargers (2) for existing Gurrie Middle School mobile lab.	Tech Director	$5K	District Funds
D26	Purchase printer supplies for inkjet and laser printers	Tech Director	$10K	District Funds
		TOTAL	**$290.5K**	

Success Indicators	
	Implementation of a scheduled replacement cycle for technology equipment.
	District-wide system for funding, purchasing, equipment/software evaluation.
	Presence of a robust, flexible, and stable infrastructure (data and electrical) that is ready to meet increasingly demanding future needs.
	Variety of reliable, easily accessible technology tools available to students and staff based on best practice research.

Year 1 Budget Summary	**Amount**
Community Involvement	5,300.00
Curriculum and Instruction	179,000.00
Professional Development	27,500.00
Deployment and Sustainability	290,000.00
Total	**$501,800.00**

In April, 2006 the Technology Planning Committee presented the proposed Technology Plan to the School District 105 Board of Education. The board approved funding for Year 1 of the Technology Plan at the district's monthly board meeting in May, 2006.

Year 2 (2007-08 school year)

Community Involvement

Goal 6a. Ensure that District 105 builds and harbors an interconnected learning community consisting of district students, staff, parents, and all residents, businesses and other organizations within District 105.				
Activities / Strategies		**Person(s) Responsible**	**Estimated Cost**	**Funding Source**
A1	Offer quarterly courses for community parents on Internet Safety.	Tech. Director Tech. Specialist Community Resource Group	$0.5K	District Funds
A2	Survey community members to determine additional courses to be offered.	Tech. Director Tech. Specialist Community Resource Group	$0.1K	District Funds
A3	Offer additional technology courses to community members based on survey data.	Tech. Director Tech. Specialist Community Resource Group	$1K	District Funds
A4	Offer low/no cost computers to community members.	Tech Director	0	N/A
A5	Survey and connect with businesses within the District 105 community to build partnerships.	Tech. Director Community Resource Group	$0.1K	District Funds
A6	Redesign District 105 homepage to be: hosted internally, more intuitive, more dynamic, more relevant, and easier to access information	Tech. Specialist Community Resource Group	0	N/A
A7	Register the district's web domain with search engines to increase visibility on WWW.	Tech. Director	$0.6K	District Funds
A8	Identify community groups to link information to/from the district homepage and calendar.	Tech. Specialist Community Resource Group	0	N/A
A9	Pursue alternative forms of technology funding by competing for grants. Evaluate success of initiative inY2 to determine continuation.	Superintendent	$8K	District Funds
		TOTAL	**$10.3K**	

Success Indicators	
	Increased usage of District 105 website.
	Increased presence of relevant, dynamic content on District 105 website.
	Increased connection and communication with the community.
	Technology classes being offered to parents and community members.

Curriculum & Instruction

Goal 6b.1: Ensure students achieve high academic standards.

Goal 6b.2: Ensure that the use of technology is employed in a consistent manner across classrooms and schools to support student achievement.

Activities / Strategies		Person(s) Responsible	Estimated Cost	Funding Source
B1	Assess student progress toward achieving grade level learning targets (developed based upon NCREL's Six Essential Learnings) through administration of benchmark technology assessments at two grade levels – Spring 07. .	Tech Director Inst. Tech Specialist Tech Specialist Teachers	0	N/A
B2	Technology will be wrapped into the curriculum renewal process for all content areas using science as model.	Tech Director Dir. of Curriculum Curriculum Committees	0	N/A
B3	Adopt the "Technology Champions" program. (Appendix X)	Superintendent Tech Director	0	N/A
B4	Identified (10) "Champion Teachers" to develop / redesign a major instructional unit (common to grade level) to include grade level technology expectations (beginning second semester of Y1).	Tech Director Champion Teachers Dir. of Curriculum Tech Specialist Inst. Tech Specialist Principals	0	N/A
B5	Purchase (1) mobile presentations cart (equipped with LCD projector & PC) per school.	Tech Director	$20K	District Funds
B6	Purchase (1) mobile computer lab (30 laptops) for Gurrie Middle School.	Tech Director	$38K	District Funds
B7	Equip elementary classrooms with technology as defined in the "Smart Classrooms for Technology Champions" (Appendix X) over the next 5 years ie LCD's Y2, etc	Tech Director Tech Specialist	$225K	District Funds
B8	Equip middle school classrooms with all the technology as defined in the "Smart Classrooms for Technology Champions" (Appendix X), except for computer clusters, over the	Tech Director Tech Specialist	$30K	District Funds

	next 5 years.			
B9	K-6 grade level teachers will use newly acquired technology in conjunction with the new science adoption.	Tech Director Teachers Dir. of Curriculum Tech Specialist Inst. Tech Specialist Principals	0	N/A
B10	Purchase (1) mobile clusters of laptops (4-6) per elementary school.	Tech Director	$30K	District Funds
B11	Grades 2-6 teachers will use math software to reinforce facts and basic computational skills and through use of new clusters (4-6) of computers.	Tech Director Teachers Tech Coaches Tech Specialist Inst. Tech Specialist Principals	$20K	District Funds
B12	K-6 teachers will use typing software to reinforce keyboarding skills through use of new clusters (4-6) of computers.	Tech Director Teachers Tech Coaches Tech Specialist Inst. Tech Specialist Principals	0	District Funds
B13	4-6 grade teachers will post homework assignments on Edline	Tech Director Teachers Tech Coaches Tech Specialist Inst. Tech Specialist Principals	0	N/A
B14	Integrate decisions about the instructional uses of technology into the district curriculum renewal process.	Tech Director Dir. of Curriculum Inst. Tech Specialist Curric. Commitees	0	N/A
B15	Integrate technology to support student learning in all content areas.	Tech Director Dir. of Curriculum Inst. Tech Specialist Curric. Commitees	0	N/A
B16	Continued implementation of grade level technology learning targets that were developed based upon NCREL's Six Essential Learnings (Appendix U).	Tech Director Dir. of Curriculum Inst. Tech Specialist Tech Specialist Teachers	0	N/A
B18	Move from "pull out" model of technology instruction to an integrated instructional approach	Tech Director Dir. of Curriculum Inst. Tech Specialist Tech Specialist Teachers	0	N/A
B19	Continue developing a district website that supports improved student numeracy and literacy with interactive learning activities, especially during the summer months.	Dir. of Curriculum, Curriculum Committees Principals, Tech Director Tech Specialist	0	N/A
B20	Purchase subscriptions to on-line reference resources.	Tech Director LLC Coordinators	$3K	District Funds
B21	Investigate need for additional instructional technology support personnel.	Superintendent Tech Director Dir. of Curriculum	0	N/A

		TOTAL	**$368K**	

Success Indicators	
	Increased integration of technology into the instructional process.
	Creation of new units, integrated with technology, developed a each grade level.
	Increased student performance in grades 4-8 on ITBS Math Computation subtests.
	Creation of a technology-rich K-6 science curriculum
	Increased student performance on benchmark technology assessments, including keyboarding skills.

Professional Development

Goal 6c.1: Ensure that district technology-related professional development incorporates best practices, accounts for varying ability levels, allows for anytime-anywhere accessibility, and supports District 105's long range goals.

Goal 6c.2: Ensure that district staff attains the necessary professional, technology proficiency to support District 105's long range goals.

Activities / Strategies		Person(s) Responsible	Estimated Cost	Funding Source
C1	Perform needs assessment at each building and develop professional development plan.	Tech. Director, Tech. Specialist,	$0	N/A
C2	Offer in-house training classes in response to needs assessment.	Tech. Director, Tech. Specialist	$2K	District Funds
C3	Offer professional development related to Instructional Technology and best practices.	Tech. Director Tech. Specialist Inst. Tech Specialist	$2K	District Funds
C4	Continue /expand Technology Coach program to support staff training on all district technology initiatives.	Tech. Specialist, Technology Coaches	$20K	District Funds
C5	Continued training for Technology Coaches to support district technology initiatives.	Tech. Specialist, Technology Coaches	$2K	District Funds
C6	Train teachers on expansion of classroom web page system (Edline).	Technology Coaches, Tech Specialist	$0	N/A
C7	Subscribe to online services to support instructional technology staff.	Tech Director	$0.750K	District Funds
C8	Organize Staff Development opportunities to occur during school day.	Tech Director Tech Coaches Principals	$2K	District Funds
C9	Continued development / revising printed Technology Manual detailing specific Technology procedures for all teachers (Appendix Y).	Tech. Director Tech. Specialist, Inst. Tech Specialist	$0.5K	District Funds
C10	Support teacher attendance at technology conferences.	Tech Director Superintendent Principals	$2K	District Funds
C11	Offer data analysis course for teachers and administrators.	Tech Director Tech Specialist Business Manager.	$0.5K	District Funds
C12	Provide training to staff in new student management system.	Tech Director Tech Specialist	$4K	District Funds
		TOTAL	**$35.75K**	

Success Indicators	
	In-house professional development opportunities based on teacher needs taking place.
	Professional development opportunities related to Instructional Technology, Technology skills integration, and best practices offered on a quarterly basis.
	Increased level of student-centered lesson plans incorporation technology.
	Increased use of student profile and performance data to target student instructional needs through the use of new student management system.

Technology Deployment and Sustainability

Goal 6d.1: Provide appropriate, reliable (well-maintained), cost-effective, and easily accessible technology to support District 105's long range goals.

Goal 6d.:2 Provide a robust, flexible, and stable technology infrastructure ready to meet increasingly demanding future needs.

Activities / Strategies		Person(s) Responsible	Estimated Cost	Funding Source
D2	Update the cable plant in all five (5) facilities to be compliant with current NEC and TIA/EIA low voltage communication installation guidelines to eliminate incidence of failure and potential safety and security concerns. Provide for professional installation, certification, and patching of all data connections. Maximize current / install additional fiber optic and/or Category 6 data links between main distribution facilities and intermediate distribution facilities to maximize bandwidth over the each local area network's backbone.	Tech Director	$85K	District Funds
D3	Add data links between each of the three elementary buildings and the district's technology hub, and include provisions for additional Internet connections to counter increased demand in bandwidth	Tech Director	$5K	District Funds
D4	Implement a 5 year purchasing cycle on all PC's.	Tech Director	$200K	District Funds
D5	Implement a 5 year purchasing cycle on servers, including VOIP telephony server, to ensure continued replacement of out-of-date hardware..	Tech Director	$35K	District Funds
D6	Continue professional maintenance and support of network resources (printing, Internet, intranet, file, applications, etc.).	Tech Director	$20K	District Funds
D7	Phase out / replace antiquated technologies and peripherals.	Tech Director Tech Specialist	$5K	District Funds
D8	Provide continued "Help Desk" support to all District personnel and students.	Tech Director Tech Specialist	N/A	District Funds

D9	Purchase / Upgrade industrial tech equipment and modules.	Tech Director Industrial Tech Teacher	$10K	District Funds
D10	Upgrade electrical facilities based on recommendation of electrical plant survey conducted in Y1.	Tech Director Dir. of Building & Grounds	$40K	District Funds
D11	Upgrade file servers as disk space capacity and reliability dictate.	Tech Director	$5K	District Funds
D13	Purchase miscellaneous hardware replacement parts and services (repairs, replacement parts, etc.).	Tech Director	$5K	District Funds
D15	Purchase services and support renewals of existing licensed services / systems including but not limited to: Novell, Follett, Edline, WorldBook, Electric Library, Reneseance Learning, and content filtering, .	Tech Director	$30K	District Funds
D16	Replacement of IP telephones due to normal usage.	Tech Director	$2K	District Funds
D17	Addition / replacement of power protection equipment.	Tech Director	$5K	District Funds
D18	Network Management Software Upgrades (Anti-Virus, Desktop Management, etc.) for Microsoft Vista Operating System.	Tech Director	$20K	District Funds
D19	Purchase (1) additional network laser printers at each elementary school.	Tech Director	$8K	District Funds
D21	Hire summer technology helper to assist in deployment of new technology resources.	Tech Director	$4K	District Funds
D22	Investigate need for additional technology support personnel to maintain increased level of technology resources and services.	Superintendent Tech Director	0	N/A
D23	Investigate implementation of online registration system within District 105.	Tech. Director Tech. Specialist Community Resource Group	0	N/A
D24	Install wireless access points to provide anytime/anywhere access to support best practices.	Tech Director	$7K	District Funds
D26	Purchase printer supplies for inkjet and laser printers	Tech Director	$10K	District Funds

		TOTAL	**$472K**	

Success Indicators	
	Implementation of a scheduled replacement cycle for technology equipment.
	District-wide system for funding, purchasing, equipment/software evaluation.
	Presence of a robust, flexible, and stable infrastructure (data and electrical) that is ready to meet increasingly demanding future needs.
	Variety of reliable, easily accessible technology tools available to students and staff based on best practice research.

Year 2 Budget Summary	**Amount**
Community Involvement	10,300.00
Curriculum and Instruction	366,000.00
Professional Development	35,750.00
Deployment and Sustainability	496,000.00
Total	**908,050.00**

Year 3 (2008-09 school year)

Community Involvement

Goal 6a. Ensure that District 105 builds and harbors an interconnected learning community consisting of district students, staff, parents, and all residents, businesses and other organizations within District 105.				
Activities / Strategies		**Person(s) Responsible**	**Estimated Cost**	**Funding Source**
A1	Offer quarterly courses for community parents on Internet Safety.	Tech. Director Tech. Specialist Community Resource Group	$0.5K	District Funds
A2	Survey community members to determine additional courses to be offered.	Tech. Director Tech. Specialist Community Resource Group	$0.1K	District Funds
A3	Offer additional technology courses to community members based on survey data.	Tech. Director Tech. Specialist Community Resource Group	$1K	District Funds
A4	Offer low/no cost computers to community members.	Tech Director	0	N/A
A5	Survey and connect with businesses within the District 105 community to build partnerships.	Tech. Director Community Resource Group	$0.1K	District Funds
A6	Redesign District 105 homepage to be: hosted internally, more intuitive, more dynamic, more relevant, and easier to access information	Tech. Specialist Community Resource Group	0	N/A
A7	Register the district's web domain with search engines to increase visibility on WWW.	Tech. Director	$0.6K	District Funds
A8	Identify community groups to link information to/from the district homepage and calendar.	Tech. Specialist Community Resource Group	0	N/A
		TOTAL	**$2.3K**	

Success Indicators	
	Increased usage of District 105 website.
	Increased presence of relevant, dynamic content on District 105 website.
	Increased connection and communication with the community.
	Technology classes being offered to parents and community members.

Curriculum & Instruction

Goal 6b.1: Ensure students achieve high academic standards.

Goal 6b.2: Ensure that the use of technology is employed in a consistent manner across classrooms and schools to support student achievement.

Activities / Strategies		Person(s) Responsible	Estimated Cost	Funding Source
B1	Assess student progress toward achieving grade level learning targets (developed based upon NCREL's Six Essential Learnings) through administration of benchmark technology assessments at two grade levels – Spring 07. .	Tech Director Inst. Tech Specialist Tech Specialist Teachers	0	N/A
B2	Technology will be wrapped into the curriculum renewal process for all content areas using science as model.	Tech Director Dir. of Curriculum Curriculum Committees	0	N/A
B3	Adopt the "Technology Champions" program. (Appendix X)	Superintendent Tech Director	0	N/A
B4	Identified (10) "Champion Teachers" to develop / redesign a major instructional unit (common to grade level) to include grade level technology expectations (beginning second semester of Y1).	Tech Director Champion Teachers Dir. of Curriculum Tech Specialist Inst. Tech Specialist Principals	0	N/A
B6	Purchase (1) mobile computer lab (20 laptops) for Gurrie Middle School.	Tech Director	$26K	District Funds
B7	Equip elementary classrooms with technology as defined in the "Smart Classrooms for Technology Champions" (Appendix X) over the next 5 years ie LCD's Y2, etc	Tech Director Tech Specialist	$225K	District Funds
B8	Equip middle school classrooms with all the technology as defined in the "Smart Classrooms for Technology Champions" (Appendix X), except for computer clusters, over the next 5 years.	Tech Director Tech Specialist	$30K	District Funds
B9	K-6 grade level teachers will use newly acquired technology in conjunction with the new	Tech Director Teachers Dir. of Curriculum Tech Specialist	0	N/A

	science adoption.	Inst. Tech Specialist Principals		
B10	Purchase (3) mobile clusters of laptops (4-6) per elementary school.	Tech Director	$30K	District Funds
B11	Grades 2-6 teachers will use math software to reinforce facts and basic computational skills and through use of new clusters (4-6) of computers.	Tech Director Teachers Tech Coaches Tech Specialist Inst. Tech Specialist Principals	$20K	District Funds
B12	K-6 teachers will use typing software to reinforce keyboarding skills through use of new clusters (4-6) of computers.	Tech Director Teachers Tech Coaches Tech Specialist Inst. Tech Specialist Principals	0	District Funds
B13	4-6 grade teachers will post homework assignments on Edline	Tech Director Teachers Tech Coaches Tech Specialist Inst. Tech Specialist Principals	0	N/A
B14	Integrate decisions about the instructional uses of technology into the district curriculum renewal process.	Tech Director Dir. of Curriculum Inst. Tech Specialist Curric. Commitees	0	N/A
B15	Integrate technology to support student learning in all content areas.	Tech Director Dir. of Curriculum Inst. Tech Specialist Curric. Commitees	0	N/A
B16	Continued implementation of grade level technology learning targets that were developed based upon NCREL's Six Essential Learnings (Appendix Q).	Tech Director Dir. of Curriculum Inst. Tech Specialist Tech Specialist Teachers	0	N/A
B17	Review grade level technology learning expectations with the Lyons Township Articulation Committee.	Tech Director Dir. of Curriculum	0	N/A
B18	Move from "pull out" model of technology instruction to an integrated instructional approach	Tech Director Dir. of Curriculum Inst. Tech Specialist Tech Specialist Teachers	0	N/A
B19	Continue developing a district website that supports improved student numeracy and literacy with interactive learning activities, especially during the summer months.	Dir. of Curriculum, Curriculum Committees Principals, Tech Director Tech Specialist	0	N/A
B20	Purchase subscriptions to on-line reference resources.	Tech Director LLC Coordinators	$3K	District Funds
B21	Investigate need for additional instructional technology support personnel.	Superintendent Tech Director Dir. of Curriculum	0	N/A

		TOTAL	**$335.3K**	

Success Indicators	
	Increased integration of technology into the instructional process.
	Creation of new units, integrated with technology, developed a each grade level.
	Increased student performance in grades 4-8 on ITBS Math Computation subtests.
	Creation of a technology-rich K-6 science curriculum
	Increased student performance on benchmark technology assessments, including keyboarding skills.

Professional Development

Goal 6c.1: Ensure that district technology-related professional development incorporates best practices, accounts for varying ability levels, allows for anytime-anywhere accessibility, and supports District 105's long range goals.

Goal 6c.2: Ensure that district staff attains the necessary professional, technology proficiency to support District 105's long range goals.

Activities / Strategies		Person(s) Responsible	Estimated Cost	Funding Source
C1	Perform needs assessment at each building and develop professional development plan.	Tech. Director, Tech. Specialist,	$0	N/A
C2	Offer in-house training classes in response to needs assessment.	Tech. Director, Tech. Specialist	$2K	District Funds
C3	Offer professional development related to Instructional Technology and best practices.	Tech. Director Tech. Specialist Inst. Tech Specialist	$2K	District Funds
C4	Continue /expand Technology Coach program to support staff training on all district technology initiatives.	Tech. Specialist, Technology Coaches	$20K	District Funds
C5	Continued training for Technology Coaches to support district technology initiatives.	Tech. Specialist, Technology Coaches	$2K	District Funds
C6	Train teachers on expansion of classroom web page system (Edline).	Technology Coaches, Tech Specialist	$0	N/A
C7	Subscribe to online services to support instructional technology staff.	Tech Director	$0.75K	District Funds
C8	Organize Staff Development opportunities to occur during school day.	Tech Director Tech Coaches Principals	$2K	District Funds
C9	Continued development / revising printed Technology Manual detailing specific Technology procedures for all teachers (Appendix Y).	Tech. Director Tech. Specialist, Inst. Tech Specialist	$0.5K	District Funds
C10	Support teacher attendance at technology conferences.	Tech Director Superintendent Principals	$2K	District Funds
C11	Offer data analysis course for teachers and administrators.	Tech Director Tech Specialist Business Manager.	$0.5K	District Funds
C12	Provide training to staff in new student management system.	Tech Director Tech Specialist	$4K	District Funds
		TOTAL	**$35.75K**	

Success Indicators	
	In-house professional development opportunities based on teacher needs taking place.
	Professional development opportunities related to Instructional Technology, Technology skills integration, and best practices offered on a quarterly basis.
	Increased level of student-centered lesson plans incorporation technology.
	Increased use of student profile and performance data to target student instructional needs through the use of new student management system.

Technology Deployment and Sustainability

Goal 6d.1: Provide appropriate, reliable (well-maintained), cost-effective, and easily accessible technology to support District 105's long range goals.

Goal 6d.:2 Provide a robust, flexible, and stable technology infrastructure ready to meet increasingly demanding future needs.

Activities / Strategies		Person(s) Responsible	Estimated Cost	Funding Source
D2	Update the cable plant in all five (5) facilities to be compliant with current NEC and TIA/EIA low voltage communication installation guidelines to eliminate incidence of failure and potential safety and security concerns. Provide for professional installation, certification, and patching of all data connections. Maximize current / install additional fiber optic and/or Category 6 data links between main distribution facilities and intermediate distribution facilities to maximize bandwidth over the each local area network's backbone.	Tech Director	$50K	District Funds
D3	Add data links between each of the three elementary buildings and the district's technology hub, and include provisions for additional Internet connections to counter increased demand in bandwidth	Tech Director	$5K	District Funds
D4	Implement a 5 year purchasing cycle on all PC's.	Tech Director	$25K	District Funds
D5	Implement a 5 year purchasing cycle on servers, including VOIP telephony server, to ensure continued replacement of out-of-date hardware..	Tech Director	$20K	District Funds
D6	Continue professional maintenance and support of network resources (printing, Internet, intranet, file, applications, etc.).	Tech Director	$15K	District Funds
D7	Phase out / replace antiquated technologies and peripherals.	Tech Director Tech Specialist	$5K	District Funds
D8	Provide continued "Help Desk" support to all District personnel and students.	Tech Director Tech Specialist	N/A	District Funds

D9	Purchase / Upgrade industrial tech equipment and modules.	Tech Director Industrial Tech Teacher	$5K	District Funds
D10	Conduct survey of district facilities electrical plant and upgrade facilities based on recommendation of survey.	Tech Director Dir. of Building & Grounds	$5K	District Funds
D11	Upgrade file servers as disk space capacity and reliability dictate.	Tech Director	$5K	District Funds
D13	Purchase miscellaneous hardware replacement parts and services (repairs, replacement parts, etc.).	Tech Director	$5K	District Funds
D15	Purchase services and support renewals of existing licensed services / systems including but not limited to: Novell, Follett, Edline, WorldBook, Electric Library, Reneseance Learning, and content filtering, .	Tech Director	$30K	District Funds
D16	Replacement of IP telephones due to normal usage.	Tech Director	$2K	District Funds
D17	Addition / replacement of power protection equipment.	Tech Director	$5K	District Funds
D18	Network Management Software Upgrades (Anti-Virus, Desktop Management, etc.) for Microsoft Vista Operating System.	Tech Director	$20K	District Funds
D21	Hire summer technology helper to assist in deployment of new technology resources.	Tech Director	$4K	District Funds
D24	Install wireless access points to provide anytime/anywhere access to support best practices.	Tech Director	$7K	District Funds
D26	Purchase printer supplies for inkjet and laser printers	Tech Director	$10K	District Funds
		TOTAL	**$198K**	

Success Indicators	
	Implementation of a scheduled replacement cycle for technology equipment.
	District-wide system for funding, purchasing, equipment/software evaluation.
	Presence of a robust, flexible, and stable infrastructure (data and electrical) that is ready to meet increasingly demanding future needs.

	Variety of reliable, easily accessible technology tools available to students and staff based on best practice research.

Year 3 Budget Summary	**Amount**
Community Involvement	2,300.00
Curriculum and Instruction	335,300.00
Professional Development	35,750.00
Deployment and Sustainability	218,000.00
Total	**$591,350.00**

Year 4 (2009-10 school year)

Community Involvement

Goal 6a. Ensure that District 105 builds and harbors an interconnected learning community consisting of district students, staff, parents, and all residents, businesses and other organizations within District 105.				
Activities / Strategies		**Person(s) Responsible**	**Estimated Cost**	**Funding Source**
A1	Offer quarterly courses for community parents on Internet Safety.	Tech. Director Tech. Specialist Community Resource Group	$0.5K	District Funds
A2	Survey community members to determine additional courses to be offered.	Tech. Director Tech. Specialist Community Resource Group	$0.1K	District Funds
A3	Offer additional technology courses to community members based on survey data.	Tech. Director Tech. Specialist Community Resource Group	$2K	District Funds
A4	Offer low/no cost computers to community members.	Tech Director	0	N/A
A5	Survey and connect with businesses within the District 105 community to build partnerships.	Tech. Director Community Resource Group	$0.1K	District Funds
A6	Redesign District 105 homepage to be: hosted internally, more intuitive, more dynamic, more relevant, and easier to access information	Tech. Specialist Community Resource Group	0	N/A
A7	Register the district's web domain with search engines to increase visibility on WWW.	Tech. Director	$0.6K	District Funds
A8	Identify community groups to link information to/from the district homepage and calendar.	Tech. Specialist Community Resource Group	0	N/A
		TOTAL	**$3.3K**	

Success Indicators	
	Increased usage of District 105 website.
	Increased presence of relevant, dynamic content on District 105 website.
	Increased connection and communication with the community.
	Technology classes being offered to parents and community members.

Curriculum & Instruction

Goal 6b.1: Ensure students achieve high academic standards.

Goal 6b.2: Ensure that the use of technology is employed in a consistent manner across classrooms and schools to support student achievement.

Activities / Strategies		Person(s) Responsible	Estimated Cost	Funding Source
B1	Assess student progress toward achieving grade level learning targets (developed based upon NCREL's Six Essential Learnings) through administration of benchmark technology assessments at two grade levels – Spring 07. .	Tech Director Inst. Tech Specialist Tech Specialist Teachers	0	N/A
B2	Technology will be wrapped into the curriculum renewal process for all content areas using science as model.	Tech Director Dir. of Curriculum Curriculum Committees	0	N/A
B3	Adopt the "Technology Champions" program. (Appendix X)	Superintendent Tech Director	0	N/A
B4	Identified (10) "Champion Teachers" to develop / redesign a major instructional unit (common to grade level) to include grade level technology expectations (beginning second semester of Y1).	Tech Director Champion Teachers Dir. of Curriculum Tech Specialist Inst. Tech Specialist Principals	0	N/A
B7	Equip elementary classrooms with technology as defined in the "Smart Classrooms for Technology Champions" (Appendix) over the next 5 years ie LCD's Y2, etc	Tech Director Tech Specialist	$225K	District Funds
B8	Equip middle school classrooms with all the technology as defined in the "Smart Classrooms for Technology Champions" (Appendix), except for computer clusters, over the next 5 years.	Tech Director Tech Specialist	$30K	District Funds
B9	K-6 grade level teachers will use newly acquired technology in conjunction with the new science adoption.	Tech Director Teachers Dir. of Curriculum Tech Specialist Inst. Tech Specialist Principals	0	N/A

B11	Grades 2-6 teachers will use math software to reinforce facts and basic computational skills and through use of new clusters (4-6) of computers.	Tech Director Teachers Tech Coaches Tech Specialist Inst. Tech Specialist Principals	$20K	District Funds
B12	K-6 teachers will use typing software to reinforce keyboarding skills through use of new clusters (4-6) of computers.	Tech Director Teachers Tech Coaches Tech Specialist Inst. Tech Specialist Principals	0	District Funds
B13	4-6 grade teachers will post homework assignments on Edline	Tech Director Teachers Tech Coaches Tech Specialist Inst. Tech Specialist Principals	0	N/A
B14	Integrate decisions about the instructional uses of technology into the district curriculum renewal process.	Tech Director Dir. of Curriculum Inst. Tech Specialist Curric. Commitees	0	N/A
B15	Integrate technology to support student learning in all content areas.	Tech Director Dir. of Curriculum Inst. Tech Specialist Curric. Commitees	0	N/A
B16	Continued implementation of grade level technology learning targets that were developed based upon NCREL's Six Essential Learnings (Appendix Q).	Tech Director Dir. of Curriculum Inst. Tech Specialist Tech Specialist Teachers	0	N/A
B18	Move from "pull out" model of technology instruction to an integrated instructional approach	Tech Director Dir. of Curriculum Inst. Tech Specialist Tech Specialist Teachers	0	N/A
B19	Continue developing a district website that supports improved student numeracy and literacy with interactive learning activities, especially during the summer months.	Dir. of Curriculum, Curriculum Committees Principals, Tech Director Tech Specialist	0	N/A
B20	Purchase subscriptions to on-line reference resources.	Tech Director LLC Coordinators	$3K	District Funds
B21	Investigate need for additional instructional technology support personnel.	Superintendent Tech Director Dir. of Curriculum	0	N/A
		TOTAL	**$278K**	

Success Indicators	
	Increased integration of technology into the instructional process.
	Creation of new units, integrated with technology, developed a each grade level.
	Increased student performance in grades 4-8 on ITBS Math Computation subtests.

	Creation of a technology-rich K-6 science curriculum
	Increased student performance on benchmark technology assessments, including keyboarding skills.

Professional Development

Goal 6c.1: Ensure that district technology-related professional development incorporates best practices, accounts for varying ability levels, allows for anytime-anywhere accessibility, and supports District 105's long range goals.

Goal 6c.2: Ensure that district staff attains the necessary professional, technology proficiency to support District 105's long range goals.

Activities / Strategies		Person(s) Responsible	Estimated Cost	Funding Source
C1	Perform needs assessment at each building and develop professional development plan.	Tech. Director, Tech. Specialist,	$0	N/A
C2	Offer in-house training classes in response to needs assessment.	Tech. Director, Tech. Specialist	$2K	District Funds
C3	Offer professional development related to Instructional Technology and best practices.	Tech. Director Tech. Specialist Inst. Tech Specialist	$2K	District Funds
C4	Continue /expand Technology Coach program to support staff training on all district technology initiatives.	Tech. Specialist, Technology Coaches	$20K	District Funds
C5	Continued training for Technology Coaches to support district technology initiatives.	Tech. Specialist, Technology Coaches	$2K	District Funds
C6	Train teachers on expansion of classroom web page system (Edline).	Technology Coaches, Tech Specialist	$0	N/A
C7	Subscribe to online services to support instructional technology staff.	Tech Director	$0.75K	District Funds
C8	Organize Staff Development opportunities to occur during school day.	Tech Director Tech Coaches Principals	$2K	District Funds
C9	Continued development / revising printed Technology Manual detailing specific Technology procedures for all teachers (Appendix Y).	Tech. Director Tech. Specialist, Inst. Tech Specialist	$0.5K	District Funds
C10	Support teacher attendance at technology conferences.	Tech Director Superintendent Principals	$3K	District Funds
C11	Offer data analysis course for teachers and administrators.	Tech Director Tech Specialist Business Manager.	$0.5K	District Funds
C12	Provide training to staff in new student management system.	Tech Director Tech Specialist	$4K	District Funds
		TOTAL	**$36.75K**	

Success Indicators	
	In-house professional development opportunities based on teacher needs taking place.
	Professional development opportunities related to Instructional Technology, Technology skills integration, and best practices offered on a quarterly basis.
	Increased level of student-centered lesson plans incorporation technology.
	Increased use of student profile and performance data to target student instructional needs through the use of new student management system.

Technology Deployment and Sustainability

Goal 6d.1: Provide appropriate, reliable (well-maintained), cost-effective, and easily accessible technology to support District 105's long range goals.

Goal 6d.:2 Provide a robust, flexible, and stable technology infrastructure ready to meet increasingly demanding future needs.

Activities / Strategies		Person(s) Responsible	Estimated Cost	Funding Source
D3	Add data links between each of the three elementary buildings and the district's technology hub, and include provisions for additional Internet connections to counter increased demand in bandwidth	Tech Director	$5K	District Funds
D5	Implement a 5 year purchasing cycle on servers, including VOIP telephony server, to ensure continued replacement of out-of-date hardware..	Tech Director	$15K	District Funds
D6	Continue professional maintenance and support of network resources (printing, Internet, intranet, file, applications, etc.).	Tech Director	$20K	District Funds
D7	Phase out / replace antiquated technologies and peripherals.	Tech Director Tech Specialist	$5K	District Funds
D8	Provide continued "Help Desk" support to all District personnel and students.	Tech Director Tech Specialist	N/A	District Funds
D10	Conduct survey of district facilities electrical plant and upgrade facilities based on recommendation of survey.	Tech Director Dir. of Building & Grounds	$5K	District Funds
D11	Upgrade file servers as disk space capacity and reliability dictate.	Tech Director	$5K	District Funds
D13	Purchase miscellaneous hardware replacement parts and services (repairs, replacement parts, etc.).	Tech Director	$5K	District Funds
D15	Purchase services and support renewals of existing licensed services / systems including but not limited to: Novell, Follett, Edline, WorldBook, Electric Library, Reneseance Learning, and content filtering, .	Tech Director	$30K	District Funds

D16	Replacement of IP telephones due to normal usage.	Tech Director	$2K	District Funds
D17	Addition / replacement of power protection equipment.	Tech Director	$5K	District Funds
D21	Hire summer technology helper to assist in deployment of new technology resources.	Tech Director	$4K	District Funds
D24	Install wireless access points to provide anytime/anywhere access to support best practices.	Tech Director	$7K	District Funds
D26	Purchase printer supplies for inkjet and laser printers	Tech Director	$10K	District Funds
		TOTAL	**$118K**	

Success Indicators	
	Implementation of a scheduled replacement cycle for technology equipment.
	District-wide system for funding, purchasing, equipment/software evaluation.
	Presence of a robust, flexible, and stable infrastructure (data and electrical) that is ready to meet increasingly demanding future needs.
	Variety of reliable, easily accessible technology tools available to students and staff based on best practice research.

Year 4 Budget Summary	**Amount**
Community Involvement	3,300.00
Curriculum and Instruction	278,000.00
Professional Development	36,750.00
Deployment and Sustainability	118,000.00
Total	**$436,050.00**

Year 5 (2010-11 school year)

Community Involvement

Goal 6a. Ensure that District 105 builds and harbors an interconnected learning community consisting of district students, staff, parents, and all residents, businesses and other organizations within District 105.				
Activities / Strategies		**Person(s) Responsible**	**Estimated Cost**	**Funding Source**
A1	Offer quarterly courses for community parents on Internet Safety.	Tech. Director Tech. Specialist Community Resource Group	$0.5K	District Funds
A2	Survey community members to determine additional courses to be offered.	Tech. Director Tech. Specialist Community Resource Group	$0.1K	District Funds
A3	Offer additional technology courses to community members based on survey data.	Tech. Director Tech. Specialist Community Resource Group	$2K	District Funds
A4	Offer low/no cost computers to community members.	Tech Director	0	N/A
A5	Survey and connect with businesses within the District 105 community to build partnerships.	Tech. Director Community Resource Group	$0.1K	District Funds
A6	Redesign District 105 homepage to be: hosted internally, more intuitive, more dynamic, more relevant, and easier to access information	Tech. Specialist Community Resource Group	0	N/A
A7	Register the district's web domain with search engines to increase visibility on WWW.	Tech. Director	$0.6K	District Funds
A8	Identify community groups to link information to/from the district homepage and calendar.	Tech. Specialist Community Resource Group	0	N/A
		TOTAL	**$3.3K**	

Success Indicators	
	Increased usage of District 105 website.
	Increased presence of relevant, dynamic content on District 105 website.
	Increased connection and communication with the community.
	Technology classes being offered to parents and community members.

Curriculum & Instruction

Goal 6b.1: Ensure students achieve high academic standards.

Goal 6b.2: Ensure that the use of technology is employed in a consistent manner across classrooms and schools to support student achievement.

Activities / Strategies		Person(s) Responsible	Estimated Cost	Funding Source
B1	Assess student progress toward achieving grade level learning targets (developed based upon NCREL's Six Essential Learnings) through administration of benchmark technology assessments at two grade levels – Spring 07. .	Tech Director Inst. Tech Specialist Tech Specialist Teachers	0	N/A
B2	Technology will be wrapped into the curriculum renewal process for all content areas using science as model.	Tech Director Dir. of Curriculum Curriculum Committees	0	N/A
B3	Adopt the "Technology Champions" program. (Appendix X)	Superintendent Tech Director	0	N/A
B4	Identified (10) "Champion Teachers" to develop / redesign a major instructional unit (common to grade level) to include grade level technology expectations (beginning second semester of Y1).	Tech Director Champion Teachers Dir. of Curriculum Tech Specialist Inst. Tech Specialist Principals	0	N/A
B7	Equip elementary classrooms with technology as defined in the "Smart Classrooms for Technology Champions" (Appendix X) over the next 5 years ie LCD's Y2, etc	Tech Director Tech Specialist	$225K	District Funds
B8	Equip middle school classrooms with all the technology as defined in the "Smart Classrooms for Technology Champions" (Appendix X), except for computer clusters, over the next 5 years.	Tech Director Tech Specialist	$30K	District Funds
B9	K-6 grade level teachers will use newly acquired technology in conjunction with the new science adoption.	Tech Director Teachers Dir. of Curriculum Tech Specialist Inst. Tech Specialist Principals	0	N/A

B11	Grades 2-6 teachers will use math software to reinforce facts and basic computational skills and through use of new clusters (4-6) of computers.	Tech Director Teachers Tech Coaches Tech Specialist Inst. Tech Specialist Principals	$20K	District Funds
B12	K-6 teachers will use typing software to reinforce keyboarding skills through use of new clusters (4-6) of computers.	Tech Director Teachers Tech Coaches Tech Specialist Inst. Tech Specialist Principals	0	District Funds
B13	4-6 grade teachers will post homework assignments on Edline	Tech Director Teachers Tech Coaches Tech Specialist Inst. Tech Specialist Principals	0	N/A
B14	Integrate decisions about the instructional uses of technology into the district curriculum renewal process.	Tech Director Dir. of Curriculum Inst. Tech Specialist Curric. Commitees	0	N/A
B15	Integrate technology to support student learning in all content areas.	Tech Director Dir. of Curriculum Inst. Tech Specialist Curric. Commitees	0	N/A
B16	Continued implementation of grade level technology learning targets that were developed based upon NCREL's Six Essential Learnings (Appendix Q).	Tech Director Dir. of Curriculum Inst. Tech Specialist Tech Specialist Teachers	0	N/A
B17	Review grade level technology learning expectations with the Lyons Township Articulation Committee.	Tech Director Dir. of Curriculum	0	N/A
B18	Move from "pull out" model of technology instruction to an integrated instructional approach	Tech Director Dir. of Curriculum Inst. Tech Specialist Tech Specialist Teachers	0	N/A
B19	Continue developing a district website that supports improved student numeracy and literacy with interactive learning activities, especially during the summer months.	Dir. of Curriculum, Curriculum Committees Principals, Tech Director Tech Specialist	0	N/A
B20	Purchase subscriptions to on-line reference resources.	Tech Director LLC Coordinators	$3K	District Funds
B21	Investigate need for additional instructional technology support personnel.	Superintendent Tech Director Dir. of Curriculum	0	N/A
		TOTAL	**$278K**	

Success Indicators	
	Increased integration of technology into the instructional process.

	Creation of new units, integrated with technology, developed a each grade level.
	Increased student performance in grades 4-8 on ITBS Math Computation subtests.
	Creation of a technology-rich K-6 science curriculum
	Increased student performance on benchmark technology assessments, including keyboarding skills.

Professional Development

Goal 6c.1: Ensure that district technology-related professional development incorporates best practices, accounts for varying ability levels, allows for anytime-anywhere accessibility, and supports District 105's long range goals.

Goal 6c.2: Ensure that district staff attains the necessary professional, technology proficiency to support District 105's long range goals.

Activities / Strategies		Person(s) Responsible	Estimated Cost	Funding Source
C1	Perform needs assessment at each building and develop professional development plan.	Tech. Director, Tech. Specialist,	$0	N/A
C2	Offer in-house training classes in response to needs assessment.	Tech. Director, Tech. Specialist	$2K	District Funds
C3	Offer professional development related to Instructional Technology and best practices.	Tech. Director Tech. Specialist Inst. Tech Specialist	$2K	District Funds
C4	Continue /expand Technology Coach program to support staff training on all district technology initiatives.	Tech. Specialist, Technology Coaches	$25K	District Funds
C5	Continued training for Technology Coaches to support district technology initiatives.	Tech. Specialist, Technology Coaches	$3K	District Funds
C6	Train teachers on expansion of classroom web page system (Edline).	Technology Coaches, Tech Specialist	$0	N/A
C7	Subscribe to online services to support instructional technology staff.	Tech Director	$1K	District Funds
C8	Organize Staff Development opportunities to occur during school day.	Tech Director Tech Coaches Principals	$2K	District Funds
C9	Continued development / revising printed Technology Manual detailing specific Technology procedures for all teachers (Appendix Y).	Tech. Director Tech. Specialist, Inst. Tech Specialist	$0.5K	District Funds
C10	Support teacher attendance at technology conferences.	Tech Director Superintendent Principals	$3K	District Funds
C11	Offer data analysis course for teachers and administrators.	Tech Director Tech Specialist Business Manager.	$0.5K	District Funds
C12	Provide training to staff in new student management system.	Tech Director Tech Specialist	$4K	District Funds
		TOTAL	**$43K**	

Success Indicators	
	In-house professional development opportunities based on teacher needs taking place.
	Professional development opportunities related to Instructional Technology, Technology skills integration, and best practices offered on a quarterly basis.
	Increased level of student-centered lesson plans incorporation technology.
	Increased use of student profile and performance data to target student instructional needs through the use of new student management system.

Technology Deployment and Sustainability

Goal 6d.1: Provide appropriate, reliable (well-maintained), cost-effective, and easily accessible technology to support District 105's long range goals.

Goal 6d.:2 Provide a robust, flexible, and stable technology infrastructure ready to meet increasingly demanding future needs.

Activities / Strategies		Person(s) Responsible	Estimated Cost	Funding Source
D3	Add data links between each of the three elementary buildings and the district's technology hub, and include provisions for additional Internet connections to counter increased demand in bandwidth	Tech Director	$5K	District Funds
D5	Implement a 5 year purchasing cycle on servers, including VOIP telephony server, to ensure continued replacement of out-of-date hardware..	Tech Director	$15K	District Funds
D6	Continue professional maintenance and support of network resources (printing, Internet, intranet, file, applications, etc.).	Tech Director	$20K	District Funds
D7	Phase out / replace antiquated technologies and peripherals.	Tech Director Tech Specialist	$5K	District Funds
D8	Provide continued "Help Desk" support to all District personnel and students.	Tech Director Tech Specialist	N/A	District Funds
D10	Conduct survey of district facilities electrical plant and upgrade facilities based on recommendation of survey.	Tech Director Dir. of Building & Grounds	$5K	District Funds
D11	Upgrade file servers as disk space capacity and reliability dictate.	Tech Director	$5K	District Funds
D13	Purchase miscellaneous hardware replacement parts and services (repairs, replacement parts, etc.).	Tech Director	$5K	District Funds
D15	Purchase services and support renewals of existing licensed services / systems including but not limited to: Novell, Follett, Edline, WorldBook, Electric Library, Reneseance Learning, and content filtering, .	Tech Director	$30K	District Funds

D16	Replacement of IP telephones due to normal usage.	Tech Director	$2K	District Funds
D17	Addition / replacement of power protection equipment.	Tech Director	$5K	District Funds
D21	Hire summer technology helper to assist in deployment of new technology resources.	Tech Director	$4K	District Funds
D24	Install wireless access points to provide anytime/anywhere access to support best practices.	Tech Director	$7K	District Funds
D26	Purchase printer supplies for inkjet and laser printers	Tech Director	$10K	District Funds
		TOTAL	**$118K**	

Success Indicators	
	Implementation of a scheduled replacement cycle for technology equipment.
	District-wide system for funding, purchasing, equipment/software evaluation.
	Presence of a robust, flexible, and stable infrastructure (data and electrical) that is ready to meet increasingly demanding future needs.
	Variety of reliable, easily accessible technology tools available to students and staff based on best practice research.

Year 5 Budget Summary	**Amount**
Community Involvement	3,300.00
Curriculum and Instruction	278,000.00
Professional Development	43,000.00
Deployment and Sustainability	118,000.00
Total	**$442,300.00**

Complete Technology Plan 5-YR Budget Summary	**Amount**
Community Involvement	24,500.00
Curriculum and Instruction	1,436,400.00
Professional Development	178,750.00
Deployment and Sustainability	1,240,000.00
Total	**$2,879,650.00**

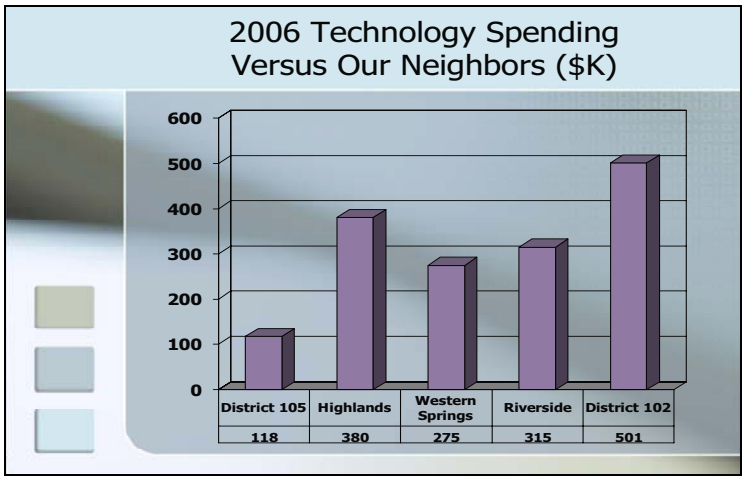
Section 9: Budget and Financial Plan

The total budget requirements for each phase of the District Technology Plan are listed in the matrix below. The plan was constructed around the District goals established by our District 105 School Board and administration. Reaching our goals set forth in this plan is completely contingent upon the fiscal support of our District's School Board and administration. District 105, like many schools in Illinois, encountered financial difficulties in recent years and was faced with making difficult yet fiscally responsible decisions. While we have aimed high with our plan, we fully understand that technology is merely one component in providing a quality education to students. This plan has been designed with the understanding that it must be a working document that will be adjusted and adapted to the resources available and the overall success of each stage its implementation.

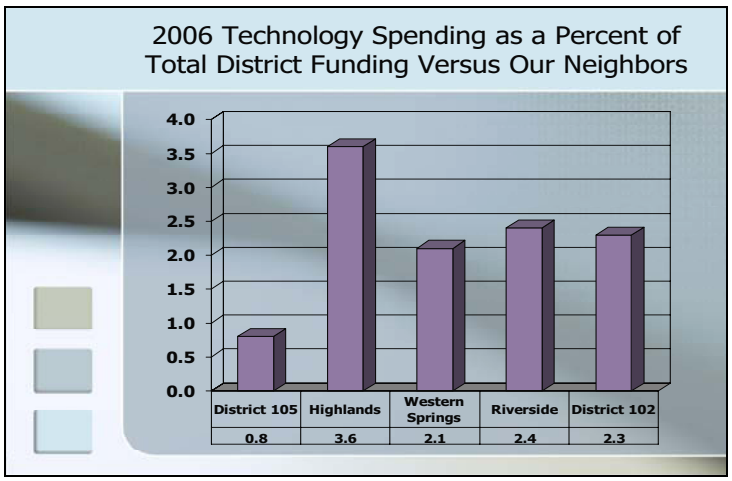
The costs reflected were greater than the planned budget for District Technology in the 2006-07 school year. The district will continue to make every effort to find alternative means for reaching the goals outlined in this document. Private, Local, State and Federal Grants and other sources of revenue will be aggressively pursued. The District will also continue to apply for E-rate discounts to offset costs associated with this plan.

Our Budget and Financial Plan consisted on three key elements; determination of an appropriate level of baseline technology expenditures, establishing the need for "catch up" spending due to years of under spending, and recognizing the need for sustained, incremental investment in technology to support and enhance the educational experience for all students.

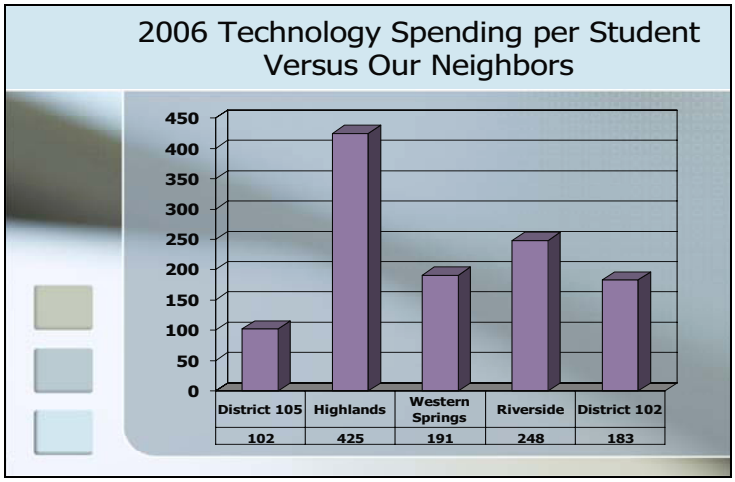
In order to determine the appropriate level of baseline technology expenditures for District 105, the committee benchmarked District 105 against other area school districts (La Grange Highlands 106, La Grange 102, Riverside 96, and Western Springs 101). Total spending, technology spending as a percent of total funding, and technology spending per student were compared.



(Figure 9.1: District 105 Spending vs. Neighboring Districts)

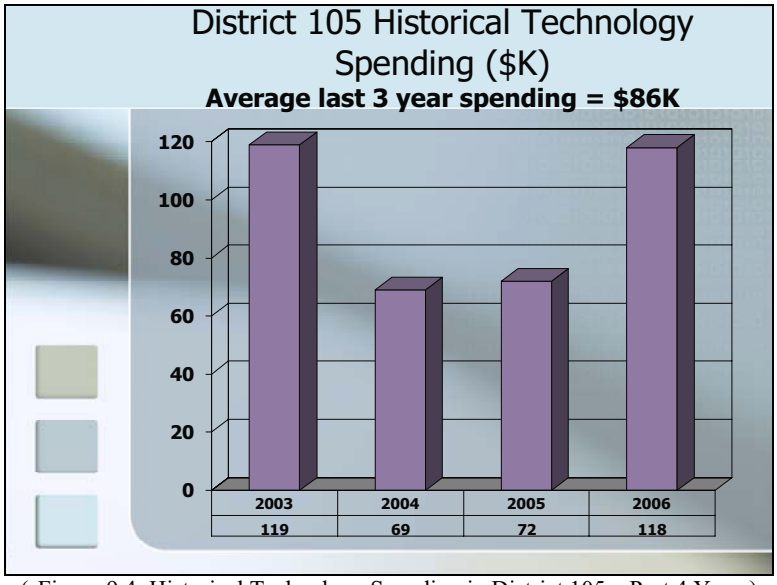


(Figure 9.2: District 105 Spending as a Percent of Total District Budget)



(Figure 9.3: 2006 Per Student Technology Spending vs. Neighboring Districts)

Based upon our research, the committee determined that the appropriate level of spending for our school district should have been between 2 – 2.5% of total district spending or approximately $300K annually. Historical technology spending data in District 105 (Figure 9.4) indicated that over the past three years the district averaged only $86K per year in technology expenditures or an average of $214K in under spending each year. The under spending was understandable given the past fiscal situation within the district. However, it resulted in a significant underinvestment in technology within District 105 and a gap of $642K in technology spending over the last three years alone.



(sFigure 9.4: Historical Technology Spending in District 105 – Past 4 Years)

Our Financial Plan establishes a five-year roadmap to put District 105 back on course technologically. The budget over the life of the plan takes into consideration the established baseline for annual technology spending ($300K / year), the catch-up spending due to underinvestment in recent years ($640K), and the new initiatives established within Section 6b of this plan. The total incremental investment over the next five years would be approximately $2.9M.

While the total cost of this five-year plan has been approximated at $2.9M, it must be noted that given the established baseline spending over five years ($1.5M) and the catch-up for under spending ($0.64M) total $2.1M. The actual incremental investment over the life of the plan is $0.8M or an average of $160K per year. Listed below is a summary of proposed expenditures for each year of the plan and a five year summary. Each year has been broken down by each key plan component area:

Year 1 Budget Summary	Amount
Community Involvement	5,300.00
Curriculum and Instruction	179,000.00
Professional Development	27,500.00
Deployment and Sustainability	290,000.00
Total	**$501,800.00**

Year 2 Budget Summary	Amount
Community Involvement	10,300.00
Curriculum and Instruction	366,000.00
Professional Development	35,750.00
Deployment and Sustainability	496,000.00
Total	**908,050.00**

Year 3 Budget Summary	Amount
Community Involvement	2,300.00
Curriculum and Instruction	335,300.00
Professional Development	35,750.00
Deployment and Sustainability	218,000.00
Total	**$591,350.00**

Year 4 Budget Summary	Amount
Community Involvement	3,300.00
Curriculum and Instruction	278,000.00
Professional Development	36,750.00
Deployment and Sustainability	118,000.00
Total	**$436,050.00**

Year 5 Budget Summary	Amount
Community Involvement	3,300.00
Curriculum and Instruction	278,000.00
Professional Development	43,000.00
Deployment and Sustainability	118,000.00
Total	**$442,300.00**

Complete Technology Plan 5-YR Budget Summary	Amount
Community Involvement	24,500.00
Curriculum and Instruction	1,436,400.00
Professional Development	178,750.00
Deployment and Sustainability	1,240,000.00
Total	**$2,879,650.00**