



District Technology Plan July 1, 2008 - June 30, 2011
Approved by the Governing Board – May 27, 2008

"On a daily basis, Kyrene Elementary School District demonstrates that when technology is strategically and appropriately utilized to support the teachable moment, it can transform instruction and increase student performance."

www.eschoolnews.com

May 2008

"I've never seen technology integrated into a classroom like this before," said Ashley Randall, a third-grade teacher visiting from Rio Rancho, N.M. "The kids are so active and engaged with the computers."

East Valley Tribune

February 25, 2008

"The students are being constructors, creators, developers, producers, which really shows a lot of student engagement, which is something that we really want to do in our district – our students to be more engaged, take more ownership in their learning."

Lon Stettler

Ohio Assistant Superintendent

"What really amazes me in Kyrene is student engagement," Beth Smith, a New Mexico principal said, "The students are so engaged in their learning."

Ahwatukee Foothills News

February 27, 2008

"What I was impressed with is that this is across Kyrene. It's not just the schools in the wealthy part of that area, but all the schools have the same kind of technology – it's universal."

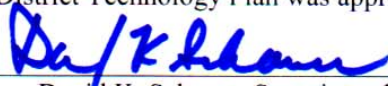
School Solutions - KPNX Channel 12

February 22, 2008

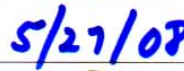
Comments about the National School Boards Association Technology Site Visitation to the Kyrene Elementary School District, February 20-22, 2008.

This Kyrene District Technology Plan was approved by the Governing Board on May 27, 2008

Certified by



David K. Schauer, Superintendent



Date

Kyrene School District Technology Plan 2008-2011

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Introduction

In May 2003, the Kyrene School District Governing Board approved the *Kyrene School District Technology Plan 2003-2008*. The document quoted Alan Kay, a former scientist for Xerox PARC and Apple Computer, who said, “The best way to predict the future is to invent it!” Thus the plan provided a roadmap for the District’s infusion of technology into learning, instruction and productivity. The comprehensive technology goals and objectives outlined in the plan directed the District to, essentially, invent the future!

As the Kyrene School District moves into the second decade of the 21st Century it finds itself to be an integral part of a technologically abundant society, where computers and computer-related devices are almost second nature. Most people come into daily contact with multiple computers – and don’t even realize it. Since the advent of the microcomputer 30 years ago, the integration of various types of technologies has resulted in an explosion of current Dick Tracy-like or Rube Goldberg-like machines, such as computers that play movies, cellular telephones that take pictures, cars that tell drivers when to turn, and digital cameras that play music.

Steve Jobs, one of the founders of Apple Computer, Inc., has said that there are two kinds of people in the world – BC people and AC people. BC people are those born before the birth of the microcomputer in 1977. AC people are those born after. This form of the digital divide identifies a challenge for schools because the students are all AC people and the teachers are mostly BC people. The manner in which students think, view the world, organize information, and communicate is impacted by the fact that they have always lived in a computer-rich society. The BC people are forever trying to catch up – but no matter how hard they try, or how adept they become at using technology, they are “technology immigrants” when compared to the AC “technology natives.” BC people are continually amazed by technology – AC people take it for granted.

The task of creating a Technology Plan is certainly compounded by the fact that technology changes so rapidly. Where it used to take two years to bring a new model of a computer to market, it is now happening in nine months. The power of today’s computer is thousands of times greater than that which was available in 1977, and there are few limitations on the equipment and software. People don’t need to know how the technology works – just like they don’t need to know how a dishwasher works – they just need to know how to make it work. Thus it is imperative that the focus of the Technology Plan be on the principle that it’s not the stuff that counts – it’s what you do with it that matters!

The New Kyrene School District Technology Plan 2008-2011

The new *Kyrene School District Technology Plan 2008-2011*, like its predecessor, the 2003-2008 Plan, is not consumed with state-of-the-art technology, but rather with the effect that the integration of technological tools in the curriculum and workplace can have for the state-of-the-art education of our students. The plan continues to provide a framework that supports the idea of Evolution – not Revolution where the infusion of new systems or the acquisition of new technology skills is a process, not an event.

The new plan maintains and extends the previous plan's highly successful roadmap, thus ensuring that technology continues to evolve and play a supporting role rather than a starring role in classrooms. Technology is rarely the focus of instruction – rather it is a tool with which people may access, gather, and create information; organize and analyze information; and communicate ideas. The level of need and ability of the user determines the sophistication with which one carries out these functions. People have access to an indeterminate number of resources on the Internet – the amount of information that they have at their fingertips is staggering! However, the underlying principle for the use of technology has not changed since its inception – technology is still a tool.

The *Kyrene School District Technology Plan 2008-2011* continues to be centered on the coordination of all aspects of technology, regardless of any theoretical or traditional separations. The plan is not designed to be an Educational Technology Plan, an Informational Technology Plan, or a Management Technology Plan – but rather to be a comprehensive Kyrene District Technology Plan. In many school districts, differentiating between various types of technology – educational versus informational – serves some organizational purpose. A strong aspect of the Kyrene Plan is the continuing realization that all technology, including information technology systems, (i.e., student information, library management, human resource/finance, bus monitoring video, etc.) impact student achievement.

The District's 100Mbit enterprise wired network and evolving integrated wireless network create a highly productive work environment and outstanding educational opportunities for students and staff. Each staff member and K-8 student has both personal and shared network storage space and a unique log-on and password. This facilitates the use of the District's productivity-based software toolkit and online curriculum-based learning platforms such as Microsoft Class Server and Blackboard.

A review of the past five years shows that the *Kyrene School District Technology Plan 2003-2008* has served as a framework that has provided the District with many successes and achievements. In November 2006, the National School Boards Association, at its annual T+L Conference in Dallas Texas, identified Kyrene as a Technology Salute District. Kyrene was one of three districts to be so recognized. In February 2008, Kyrene hosted a National School Boards Association Technology Site Visitation with over 100 educators from across the nation coming to Kyrene to witness the Technology Plan in action.

During the past five years, the District has also completely overhauled its major information systems and has implemented the following systems:

- TetraData Data Warehouse System
- INFORM Data Warehouse System
- Destiny Library and Textbook Management System
- Genesis Student Information System
- Infinite Visions Human Resources/Finance System
- Winocular Applicant Tracking System
- Kronos Timecard Management System
- Subfinder Web System
- Integrian Bus Monitoring Video System

The greatest success, however, has been the development and implementation of the Kyrene Teaches with Technology Project (KTTP), which continues to transform teaching and learning in Kyrene classrooms. KTTP is a strategic collaboration and partnership between grade-level teams of teachers, school administrators, and District Educational Technology Mentors to improve student achievement through integrated instruction. KTTP is a great example of Evolution – not Revolution as it has been evolving since 2003. KTTP started with one grade level team in 12 of the 19 elementary schools and currently includes approximately 95% of the classrooms in all Kyrene schools.

As each group of elementary grade-level or middle school team of teachers joins the project, they do so as a learning team, working with a District Educational Technology Mentor on an on-going basis. All teaching and learning discussions focus on their common, grade-level curriculum. The team, including the school principal, learns together, plans together, collaborates on and shares resources, and works together to change teaching and learning for the entire grade level or team. A key component to the sustainability of the project is the development of team and site leaders at every school, who assist the District Educational Technology Mentors.

While all Kyrene schools have computer labs, the District has a strong belief that the teachable moment does not occur on a computer lab schedule. Thus KTTP enriches each classroom with powerful, flexible technology tools. Elementary classrooms have five or six wireless laptops, a computer projector, and document camera. Middle school classrooms have a ceiling-hung projector, eight wireless laptops, a document camera, and a wireless keyboard and mouse.

It is typical in most classrooms to see students working in flexible work stations, centers, small groups, individually, and as an entire class, utilizing technology to support the teachable moment wherever and whenever it occurs. KTTP has truly made technology in the classroom as ubiquitous as a pencil. This model takes the concept of the mini-lab and leverages it within an entire grade-level team and school to create an amazing array of possibilities as laptops flow seamlessly to where they are most needed at any given time.

The true power of KTTP is centered in the learning team, which is focused on curriculum and assessment. By combining this structure with powerful and flexible technology equipment and software tools, KTTP is very successful in further developing teachers as learners, changing instruction in classrooms to reflect best teaching practices, and supporting systemic change at school sites. KTTP is not a technology project, but rather is a curriculum project where technology is a catalyst for systemic change.

In addition to the KTTP equipment model, the Kyrene School District has also established a comprehensive District Software Toolkit that is installed on each of the 9,000 District desktop and laptop computers. These, mostly productivity applications are designed for student or staff use, or both, and are organized into six toolkits: Kyrene Toolkit, Research Toolkit, Multimedia Toolkit, Content Toolkit, Accessibility Toolkit, and Staff Toolkit. In addition, the District licenses a number of web-based applications, such as: World Book Online, BrainPop, and Blackboard, as well as some content-area specialized software such as SmartMusic, Finale and Finale Notepad (music), and PASCO Data Studio (science).

In an effort to address the needs of all learners in Kyrene and to meet some of the Universal Design for Learning Principles, the District has implemented a network version of Read&Write Gold on all laptop and desktop computers. This software provides accessibility tools for all students to support the reading, writing and researching processes. While primarily designed for special education students, the District has chosen to make this powerful tool available for all learners.

As part of the larger vision for standards-based classrooms, KTCP teachers also use Microsoft Class Server. This learning management platform allows teachers to collaborate and share teaching resources online, provides a password and firewall protected environment for students to work and be assessed, as well as the ability to tie all this work to the District's curriculum standards. This provides an online work environment for teachers to create standards-based achievement reports for students and share this information with parents as part of the ongoing parent-teacher dialog about student achievement.

The *Kyrene School District Technology Plan 2008-2011* repeats the four powerful Goals of the previous plan, each of which contains Objectives and Strategies by which the achievement of the Goals may be measured:

1. The District will use technology resources to increase student learning.
2. The District will provide students and staff with equitable access to technology resources.
3. The District will systematically convert from being paper-driven to technology-driven in order to provide management and communication of information between the schools, departments, district, and community.
4. The District will provide ongoing staff development and training in the use of technology resources.

The complete *Kyrene School District Technology Plan 2008-2011*, including all of the Goals, Objectives, and Strategies, is found in the following table:

Kyrene District Technology Plan 2008-2011: Goals

Goal 1. The District will use technology resources to increase student learning.	
Objective	Strategy
1.1. The District will integrate technology into all areas of curriculum.	1.1.1. The District Technology Curriculum will be integrated into core content areas.
	1.1.2. The District Technology Curriculum will be integrated into special areas and exploratory classes.
	1.1.3. The District will provide teachers with the resources to support technology integration.
	1.1.4. The District, as part of the integrated core curriculum, will provide technology resources to support student learning.
	1.1.5. The District, as part of the integrated core curriculum, will provide technology resources to assess students' progress.
	1.1.6. The District will explore and expand online and collaborative learning environments.
	1.1.7. The District will develop a continuum of technology skills to be taught at the various grade levels.
	1.1.8. The District will teach students to utilize technology tools with the same confidence and ease with which they use a pencil.
	1.1.9. The District will review and evaluate emerging technologies to determine where they might be integrated into the curriculum.
1.2. The District will provide opportunities for middle school students to achieve advanced technology objectives.	1.2.1. The District will implement a consistent Middle School Technology Exploratory curriculum which will be taught at all middle schools.
	1.2.2. The District will provide resources to support the Middle School Technology Exploratory curriculum.
1.3. The District Media Centers will continue to play an important role in the use of technology in the school.	1.3.1. The District Media Center will support learning by providing web-based resources and other media.
	1.3.2. The District will evaluate and implement new media technologies as they emerge.
	1.3.3. The District will continue to provide the Media Center with effective web-based management systems.
1.4. The District will develop technology systems that provide relevant information to facilitate data-driven decisions to increase student learning.	1.4.1. The District will provide technology systems that will organize summative student data for use by teachers and administrators.
	1.4.2. The District will provide technology systems that will organize formative student data for use by teachers and administrators.
	1.4.3. The District will utilize technology systems to provide teachers with benchmark assessments and the results thereof.
1.5. The District will implement a system to allow teachers access to a curriculum library.	1.5.1. The District will provide teachers with a system to electronically access curriculum objectives, resources, lesson plans, and assessments.

Kyrene District Technology Plan 2008-2011: Goals

Goal 2: The District will provide students and staff with equitable access to technology resources.	
Objective	Strategy
2.1. The District will establish standards to ensure that appropriate computer equipment will be available in classrooms, labs, media centers, and offices.	2.1.1. The District will establish minimum standards for the number and type of computers in all learning environments.
	2.1.2. The District will establish standards for the number of computer labs in schools.
	2.1.3. The District will establish minimum standards for the purchase of new computer equipment.
	2.1.4. The District will establish standards for the obsolescence of computer equipment.
	2.1.5. The District will re-deploy and salvage equipment and parts to extend the useful life of technology equipment that meets the standards.
	2.1.6. The District will regularly assess the use of District technology equipment to ensure that it is meeting the needs for which it is intended.
	2.1.7. The District Technology Department will review and approve any technology equipment that is being purchased, regardless of the funding source.
	2.1.8. The District will ensure that special education programs have necessary and sufficient resources, including assistive technologies.
	2.1.9. The District will ensure that technology will be available to meet the needs of 504, special needs, and gifted students.
2.2. The District will establish standards to ensure that appropriate software will be available in classrooms, labs, media centers, and offices.	2.2.1. The District Software Toolkit will be the primary source of productivity software.
	2.2.2. The District Software Toolkit will be installed on all computer systems.
	2.2.3. The District will ensure that licenses will be kept current for all District toolkit or other standardized applications.
	2.2.4. The District will ensure that all curriculum-related software undergoes a formal evaluation or adoption process before being implemented.
	2.2.5. The District will carryout regular, formal evaluations to measure the effectiveness of computer-assisted instructional systems.
	2.2.6. The District will ensure that all staff and students comply with copyright regulations when creating online content or incorporating third party content into classroom materials.

Kyrene District Technology Plan 2008-2011: Goals

Goal 2: The District will provide students and staff with equitable access to technology resources.	
Objective	Strategy
2.3. The District will ensure that all students and staff have access to technology resources where and when they need them.	2.3.1. The District will provide wireless networking environments that promote the anywhere, anytime use of technology resources.
	2.3.2. The District will provide students and staff with secure login and passwords that allow them to utilize any District computer to access their files and technology resources.
	2.3.3. The District will provide software tools that allow students and staff to work from any computer.
	2.3.4. The District will install a Laptop Storage Unit in every classroom to provide security, charging, and software updates.
	2.3.5. The District will provide and/or install in every classroom, a ceiling-hung projector and other appropriate technologies necessary for the teaching and learning process.
	2.3.6. The District will provide students and staff with individual and shared networked storage space.
	2.3.7. The District will provide non-hourly staff with home access to their files that are stored on the District file servers.
	2.3.8. The District will provide the ability for staff, as appropriate, to utilize productivity tools from home.
	2.3.9. The District will provide extended computer lab hours for students who require the use of technology when it is not available at home.
	2.3.10. The District will hold students and staff who use District technology equipment before and after school to the same AUP standards as during the school day.
	2.3.11. The District will seek community partnerships and grants to provide Internet access for those homes that can't afford it.
	2.3.12. The District will endeavor to provide students with the ability to use Kyrene toolkit applications at home.
2.4. The District will ensure that the technology infrastructure and resources are kept in proper working order.	2.4.1. The District will assign User Support Technicians to schools on a schedule, in order to provide timely support and service.
	2.4.2. The District will assign a team consisting of one User Support Technician and one Educational Technology Specialist to support each Region.
	2.4.3. The District will provide the necessary bandwidth between the schools and the District Office and from the District Office to the Internet.
	2.4.4. The District will regularly monitor bandwidth utilization and will increase bandwidth between the sites and to the Internet as necessary.
	2.4.5. The District's industry-standard network will be monitored, maintained, and updated to provide consistency of access.
	2.4.6. The District's online work order system will be utilized to provide tracking of service needs.
	2.4.7. The District will ensure that, whenever possible, all computer-related equipment is purchased with a minimum three-year warranty.
	2.4.8. The District will maintain, at the District Office, an industry-standard Data Center comprised of all District application, web, file servers, and related equipment.
	2.4.9. The District file servers will be backed up nightly using industry-standard backup systems and protocols.
	2.4.10. The District will establish a Disaster Recovery Plan that includes emergency server locations.

Kyrene District Technology Plan 2008-2011: Goals

Goal 2: The District will provide students and staff with equitable access to technology resources.	
Objective	Strategy
2.5. The District will establish a technology budget that reflects the goals of the District Technology Plan.	2.5.1. The District will allocate approximately \$7,000,000 per year from the Technology Override for the purchase of technology equipment and resources.
	2.5.2. The District will allocate funds from the Technology Bond for the purchase of communication systems technology equipment and resources.
	2.5.3. The District will allocate funds from the Maintenance and Operations budget for the ongoing support of the Technology Department.
	2.5.4. The District will ensure that all purchases of technology equipment and resources are made by the Technology Department utilizing the technology budget.
	2.5.5. The District will provide each school with an appropriate budget line item for technology supplies and minimum technology replacement.
	2.5.6. The District will seek grants and other outside funding to support the acquisition and implementation of new technology within the parameters of the District Technology Plan.
	2.5.7. The District will develop private sector and community partnerships in the area of technology.
2.6. The District will ensure that students and staff are able to use technology in a safe environment.	2.6.1. The District will ensure that staff and students are educated about appropriate internet content and use.
	2.6.2. The District will implement Internet filters and other technologies, in accordance with CIPA and other applicable laws and industry-standards, to help make the use of the Internet safe for students and staff.
	2.6.3. The District will continually evaluate which Internet sites are blocked in order to provide students and staff with access to necessary sites, while still protecting them from objectionable sites such as pornography, violence, terrorism, etc.
	2.6.4. The District will hold students and staff accountable to follow the tenets of the Acceptable Use Agreement.
	2.6.5. The District will provide an email filter to safeguard email from spam, viruses, and other threats.

Kyrene District Technology Plan 2008-2011: Goals

Goal 3: The District will systematically convert from being paper-driven to technology-driven in order to provide management and communication of information between the schools, departments, district, and community.	
Objective	Strategy
3.1. The District and school web sites will be kept up to date and will be the an integral part of the District's communication strategy for dispensing information to schools, parents, students, and the community.	3.1.1. The District, as well as each school and department, will regularly publish web pages that contain current information, events, etc.
	3.1.2. The District will provide systems to allow teachers to easily publish information about course outlines, requirements, homework assignments, and resources.
	3.1.3. The District will implement a Content Management System to ensure that web pages will have a consistent look and feel.
	3.1.4. The District schools and departments will identify staff that will help implement District website standards.
	3.1.5. All District internal and external forms will be available online via the District website.
	3.1.6. The District will further develop its website to contain an abundance of District documents and information, including policies, procedures, agendas, calendars, applicant information, etc.
	3.1.7. The District will explore various strategies to foster communication among groups. (Parent-to-Parent, Parent-to-Administration, Parent-to-Teacher, etc.)
	3.1.8. The District will utilize survey software and other technology systems to gauge the opinions of staff, students, and parents.
3.2. The District will further develop its email system in order to maximize communication within the district and community.	3.2.1. The District will acquire, organize, and maintain parent email addresses in a database.
	3.2.2. The District will provide parents with the opportunity to register in a District Listserv to receive specific communications from teachers, schools, and departments.
	3.2.3. The District will continue to provide parents and students with the ability to communicate with school and District personnel via email.
3.3. The District will provide staff, parents, and students with online information about student progress, attendance, homework, etc.	3.3.1. The District Student Information System will provide parents with online access to attendance, discipline, grades and class assignments.
	3.3.2. The District Data Warehouse System will be expanded to further facilitate the management and communication of data.
	3.3.3. The District will provide an online report card.
	3.3.4. The District will provide parents with online access to curriculum information and examples of student work.
	3.3.5. The District will provide the capability for schools and teachers to maintain digital student portfolios.
	3.3.6. The District will use technological tools to meet the reporting requirements of No Child Left Behind.
	3.3.7. The District will assist schools and departments with the technological capability to create reporting methods for statistical data and compilation of historical data required by district, state, and/or federal entities.
	3.3.8. The District Technology Department will assist departments with data transmission for state and federal reporting requirements.
	3.3.9. The District will establish kiosks at various District locations to allow parents who do not have Internet access at home to access District web pages and information.

Kyrene District Technology Plan 2008-2011: Goals

Goal 3: The District will systematically convert from being paper-driven to technology-driven in order to provide management and communication of information between the schools, departments, district, and community.	
Objective	Strategy
3.4. The District will implement systems to allow school business to be carried out as easily as personal business.	3.4.1. The District will further implement a web-based integrated business information system that includes: finance, payroll, human resources, applicant tracking, accounts payable, accounts receivable, purchasing, fixed assets, warehouse, etc.
	3.4.2. The District will further implement a web-based integrated student information system that includes: demographics, scheduling, grading, health, attendance, special education, IEP's, discipline, etc.
	3.4.3. The District will utilize technology systems to improve internal communication between and within departments.
	3.4.4 The District will implement Governing Board Meeting software to manage the agenda setting process and the publishing of the complete agenda online.
	3.4.5. The District will implement a Phone Dialer system for emergency notification purposes.
	3.4.6. The District will research and implement technology systems to provide online payment capabilities for parents.
3.5. The District will continuously examine and refine the technology planning efforts.	3.5.1. The District Technology Committee will periodically evaluate, review, and update the District Technology Plan.
	3.5.2. The District will ensure that each school, as part of their School Improvement Plan, includes site technology objectives and plans.
	3.5.3. The District will ensure that each school establishes a representative and operational School Technology Committee.
3.6. The District will include compliance with appropriate SQL, .NET, and Schools Interoperability Framework (SIF) in the evaluation and decision-making about implementing technology systems.	3.6.1. The District will ensure that all District technology systems are researched and reviewed to follow appropriate SQL, .NET, and SIF standards.
	3.6.2. The District will ensure that all Request for Proposal (RFP) or Bid documents for technology systems reference appropriate SQL, .NET, and SIF standards.
3.7. The District will endeavor to "go green."	3.7.1. The District will reduce the amount of paper purchased and used.
	3.7.2. The District will establish systemwide recycling efforts.
	3.7.3. The District will continue to utilize systems which manage and limit the use of electricity to run technology systems.
3.8. The District will develop a formalized set of Technology Procedures.	3.8.1. The District will accumulate all technology procedures into a Technology Policy and Procedures Manual.
	3.8.2. The District will publish the Technology and Procedures Manual on the web.

Kyrene District Technology Plan 2008-2011: Goals

Goal 4: The District will provide ongoing staff and community development and training in the use of technology resources.	
Objective	Strategy
4.1. Teachers will use research-based, best practice teaching strategies to integrate technology into the curriculum to increase student achievement.	4.1.1. The District will provide a regular schedule of technology training classes for teachers.
	4.1.2. The District will provide technology integration training opportunities during Staff Development Days.
	4.1.3. The District will provide teachers with training and mentoring to integrate technology in each grade level and content area.
	4.1.4. The District Educational Technology Specialists will meet monthly with KTCP Grade Level Learning Teams to mentor teachers.
	4.1.5. The District Educational Technology Specialists will support teachers through co-planning, co-teaching, and model teaching.
	4.1.6. The District will post best practice lesson plans and/or resources online in a standards-based organization.
	4.1.7. The District Technology Curriculum will be integrated into all subject area curricula.
	4.1.8. The District will ensure that technology integration will be part of the Teacher Evaluation process.
4.2. Administrators will provide leadership for their staff in the use of technology resources.	4.2.1. The District will ensure that administrators support technology integration through staff development activities.
	4.2.2. The District will ensure that administrators receive training in how to evaluate teachers' integration of technology.
	4.2.3. The District will ensure that administrators model the use of technology in their staff and community publications, meetings, etc.
	4.2.4. The District will ensure that the use of technology is part of the Administrator Evaluation process.
4.3. The District will encourage all staff to pursue avenues of growth in technology that are innovative, creative, and effective.	4.3.1. The District will continue to identify best practices in technology integration and apply this knowledge to the continuing evolution of KTCP.
	4.3.2. The District will establish a Technology Cohort Master's Degree Program through one of the universities.
	4.3.3. The District will work with staff to identify technology integration solutions to emerging needs.
	4.3.4. The District Educational Technology Specialists will teach, coordinate, consult, and model exemplary technology integration strategies.
4.4. All support staff will use technology to carry out the duties of their jobs as appropriate.	4.4.1. The District will provide technology training classes designed to meet the general and specific needs of all staff.
	4.4.2. The District will provide technology training opportunities during staff development days.
	4.4.3. The District will seek out technological systems that make work more efficient and effective.
4.5. The District will provide the community with opportunities to support adult technology literacy.	4.5.1. The District will endeavor to provide technological options for parents and community members who have limited availability of technology at home.
	4.5.2. The District will educate parents and community members about the availability of technology resources.
	4.5.3. The District will provide a variety of technology training opportunities for parents and community members.

Previous Planning for Technology in the Kyrene School District

The Kyrene School District has a long history of effective technology planning and implementation which was outlined in the 1997 Technology Strategic Plan. The commitment to use technology as a tool to improve learning can be traced back to the early 1980's. The concerns that staff and parents grappled with at that time are as valid now as they were then:

- Costs and competing demands for significant resources,
- Absence of meaningful instructional software,
- The challenge of providing effective professional development,
- Purpose and values,
- System change strategies,
- How to bring video into the classroom when cable access was managed in each municipality differently,
- Choices about platforms,
- The issue of keyboarding and programming curriculum, and
- To improve administrative functions or instructional and assessment systems first.

During 1983-1984, a team outlined their vision of technology. A technician was employed to review research in the field, combine the ideas of the technology team with best practices, and draft a plan. This first technology curriculum and plan was adopted in the spring of 1984. The curriculum focused on the acquisition of technology literacy, as well as curriculum integration. The plan called for staff development and the purchase of the district's first computers for instruction. By 1986, a technology literacy curriculum was adopted, training was offered to staff and community members, a technology coordinator was employed, and initial instructional and administrative hardware were acquired. During this same time period, the community experienced rapid demographic changes.

The student population grew from about three thousand students in 1983 to more than eighteen thousand students by 1997. Leaders in the technology industry located factories and research development centers within the Kyrene community. Farmland was converted for residential and commercial use. Resources were focused on building and opening new schools, recruiting and developing new staff, and reforming purposes, values, and practices.

In 1993, the voters in the Kyrene community approved approximately ten million dollars in funding for improvements in technology. This commitment of resources supported efforts to implement local and wide area networks and to renew the focus of the purpose and potential of technology for learning and communication. A strategic plan was published in 1995. This plan was recognized by the Smithsonian Museum and is in its collection.

Parents, students, business leaders, researchers, and Kyrene staff gathered in 1996 to review the 1995 plan and to renew Kyrene's vision for technology. A team took the ideas and artifacts from this vision conference and developed the source documents from which the 1997 plan evolved. The 1997 Plan was organized into eight goal areas. The primary purpose of the plan was to provide direction for the allocation of resources and a framework for decisions to improve equity and quality of learning opportunities for students.

Evaluation of Kyrene District Technology Planning

Evaluation of technology planning in Kyrene is an ongoing process. Progress on the achievement of the Objectives, based on the stated Strategies, is regularly examined. The following table provides some examples of the level and timeline of the evaluation of specific components of the *Kyrene School District Technology Plan 2008-2011*:

Technology Plan Objective	Evaluation Question(s)	Evaluation Strategies	Responsible Parties	Evaluation Checkpoints for Mid-course Corrections
1.4. The District will develop technology systems that provide relevant information to facilitate data-driven decisions to increase student learning.	Are teachers and school staffs able to effectively access information in the Data Warehouse?	As part of the KTCP Learning Team meetings, ask teachers about their ability to access data in the Data Warehouse.	Ed Tech Specialists and Assistant Directors of Technology and Curriculum	Monthly
	Has the District utilized technology systems to provide teachers with benchmark assessments and the results thereof.	Monitor the progress in the development of a quarterly benchmark assessment system.	Assistant Directors of Technology and Curriculum	Quarterly
2.2. The District will establish standards to ensure that appropriate software will be available in classrooms, labs, media centers, and offices.	Does curriculum-related software undergo a formal evaluation or adoption process before being implemented?	Participate and monitor curriculum adoption processes.	Assistant Director of Technology	Bi-annually
2.4. The District will ensure that the technology infrastructure and resources are kept in proper working order.	Does the District's bandwidth adequately provide users with access to the resources that they need?	Monthly bandwidth utilization will be reviewed.	Network Engineer and System Coordinators	Monthly
	Is equipment repaired in a timely manner to ensure that users have the equipment necessary?	The work order system will be queried monthly to determine how many work orders are 30 days past due.	Senior User Support Technicians and Director of Technology	Monthly
	Are the District's file servers backed up on a schedule? Are file restores affected in a timely manner?	A backup and restore report will be created monthly.	Network Engineer and System Coordinators	Monthly
2.5. The District will establish a technology budget that reflects the goals of the District Technology Plan.	Is the Technology Budget allocated in a fair and reasonable manner, and in accordance with the Technology Plan?	Monthly budget reports will be run and analyzed.	Director of Technology	Monthly
2.6. The District will ensure that students and staff are able to use technology in a safe environment.	Does the District's Internet content filter adequately protect students and staff?	Reports will be analyzed to monitor attempts to access inappropriate sites.	Network Engineer and System Coordinators	Bi-weekly
	Does the District hold students accountable to follow the Acceptable Use Agreement?	Discipline records will be analyzed to look for infractions of the Acceptable Use Agreement.	Applications Systems Coordinators	Monthly

Technology Plan Objective	Evaluation Question(s)	Evaluation Strategies	Responsible Parties	Evaluation Checkpoints for Mid-course Corrections
3.1. The District and school web sites will be kept up to date and will be the an integral part of the District's communication strategy for dispensing information to schools, parents, students, and the community.	Has the District purchased, implemented and trained on a Content Management System?	Implementation plan for the Content management System	Assistant Director of Technology, Network Engineer and System Coordinators	Monthly
	Do the teachers, schools, and departments all publish their appropriate web pages?	Survey the teachers, schools and departments to determine whether web pages are being published.	Assistant Director of Technology	Quarterly
4.1. Teachers will use research-based, best practice teaching strategies to integrate technology into the curriculum to increase student achievement.	How many technology classes are offered and what is the attendance?	Develop a monthly report of attendance at technology classes in the PGO (INFORM).	Assistant Director of Technology	Monthly
	Do the teachers regularly attend the KTCP Learning Team meetings?	Develop a monthly report of attendance at KTCP Learning Team meetings.	Educational Technology Specialists	Monthly

Kyrene District Technology Plan 2003-2008: Evaluation

This table provides a complete evaluation of the Kyrene *District Technology Plan 2003-3008*:

Goal 1. The District will use technology resources to increase student learning.		
Objective	Strategy	Evaluation
1.1. The District will integrate technology into all areas of curriculum.	1.1.1. The District Technology Curriculum will be integrated into core content areas.	~Elementary Schools: Based on a grade level learning team model, KTTP has been fully established in about 95% of all elementary classrooms. This includes resource and gifted classrooms. The equipment model is 5 or 6 wireless laptops, 2 desktops, a document camera and a computer projector.
	1.1.2. The District Technology Curriculum will be integrated into special areas and exploratory classes.	
	1.1.3. The District will provide teachers with the resources to support technology integration.	~Middle Schools: All middle school classrooms have 2 desktops, a ceiling-hung projector, document camera and wireless keyboard and mouse. Additionally, based on the team and grade level learning team model, KTTP has been fully established in about 40% of all middle school classrooms, including resource classrooms. The equipment model in these KTTP rooms also includes 8 wireless laptops.
	1.1.4. The District, as part of the integrated core curriculum, will provide technology resources to support student learning.	
	1.1.5. The District, as part of the integrated core curriculum, will provide technology resources to assess students' progress.	
	1.1.6. The District will explore and expand online learning environments.	~Microsoft Class Server, the on-line standards based learning environment, is being implemented through the KTTP learning teams. ~Blackboard is also used as on an online collaboration tool and both the server and version have been upgraded.
	1.1.7. The District will develop a continuum of technology skills to be taught at the various grade levels.	The District Technology Curriculum has been approved by the Governing Board. The intent is that the Objectives in the Technology Curriculum will be integrated into the appropriate subject area curriculum so that Technology will not be taught as a curriculum unto itself.
	1.1.8. Students will be taught to use technology with the same ease with which they use a pencil.	Laptops are readily available in classrooms for students to use as they see fit.

Kyrene District Technology Plan 2003-2008: Evaluation

Goal 1. The District will use technology resources to increase student learning.		
Objective	Strategy	Evaluation
1.2. The District will provide opportunities for middle school students to achieve advanced technology objectives.	1.2.1. The District will implement a consistent Middle School Technology Exploratory curriculum which will be taught at all middle schools.	The District Middle School Technology Exploratory curriculum has been rewritten.
	1.2.2. The District will provide resources to support the Middle School Technology Exploratory curriculum.	Desktop computers in the Computer Media classrooms are upgraded regularly to be the newest and fastest computers in the District. Additional equipment and software have been purchased as needed.
1.3. The District Media Centers will be the technological hub of the schools.	1.3.1. The District Media Centers will support learning by providing web-based resources and other media.	~The District implemented Destiny, a web-based library circulation and management software system at all schools. Destiny is also being used to manage the District textbook inventory.
	1.3.2. The District will evaluate and implement new media technologies as they emerge.	~The Media Center also circulates a variety of digital equipment including both still and video cameras and peripherals.
1.4. The District will develop technology systems that provide relevant information to facilitate data-driven decisions to increase student learning.	1.4.1. The District will provide technology systems that will organize summative student data for use by teachers and administrators.	The District's development of the Data Warehouse, using TetraData for administrative information and EDmin Inform for classroom formative and summative assessment information, is continuing. New assessment systems like DIBELS and COG are included in the Data warehouse. Reports are continuously being developed to meet users' needs. Training sessions are continuing for administrators and teachers.
	1.4.2. The District will provide technology systems that will organize formative student data for use by teachers and administrators.	
1.5. The District will implement a system to allow teachers access to a curriculum library.	1.5.1. The District will provide teachers with a system to electronically access curriculum objectives, resources, lesson plans, and assessments.	The Data Warehouse (Inform) provides electronic access to curriculum objectives, and the ability to attach resources, lesson plans, and assignments.

Kyrene District Technology Plan 2003-2008: Evaluation

Goal 2: The District will provide students and staff with equitable access to technology resources.		
Objective	Strategy	Evaluation
2.1. The District will establish standards to ensure that appropriate computer equipment will be available in classrooms, labs, media centers, and offices.	2.1.1. The District will establish minimum standards for the purchase of new computer equipment.	<p>~The District has standardized on the most current iteration of Dell laptops and desktops that meet its needs.</p> <p>~The District has developed a classroom standard for equipment (Objective 1.1 above).</p> <p>~The District purchases, from the Technology Override, laser or ink jet printers, networked or standalone, as schools request, however each individual school is responsible for toner cartridges, etc.</p>
	2.1.2. The District will establish standards for the obsolescence of computer equipment.	Computers are moved from place to place so that the lifespan may be extended. The District continues to dispose of computers and printers that are no longer viable.
	2.1.3. The District will establish minimum standards for the number and type of computers in all learning environments.	The District has developed a classroom standard for equipment (Objective 1.1 above), and this standard is evaluated yearly with adjustments being made as needed.
	2.1.4. The District will establish standards for the number of computer labs in schools.	<p>~Most elementary schools have two labs. A few have eliminated the second lab because space was needed for classrooms. Middle schools range from 4-6 labs.</p> <p>~It is possible that as laptops become even more pervasive, the need for multiple labs may be abrogated.</p>

Kyrene District Technology Plan 2003-2008: Evaluation

Goal 2: The District will provide students and staff with equitable access to technology resources.		
Objective	Strategy	Evaluation
<p>2.1. The District will establish standards to ensure that appropriate computer equipment will be available in classrooms, labs, media centers, and offices. (cont'd)</p>	<p>2.1.5. The District will ensure that special education programs have necessary and sufficient resources, including assistive technologies.</p>	<p>~Special Education classrooms have the same equipment allocation as regular education classrooms. Assistive Technology has a \$30,000 per year budget to purchase specialized equipment and software.</p> <p>~Read&Write Gold was purchased in Aug 07 to support students with special needs.</p> <p>~Special Education teachers participate in KTCP learning teams at their respective schools, and receive the same equipment as other teachers in KTCP.</p> <p>~Laptops are allocated, where necessary, to special education students whose IEP's call for it.</p>
	<p>2.1.6. The District will re-deploy and salvage equipment and parts to extend the useful life of technology equipment that meets the standards.</p>	<p>The District Senior User Support Technicians salvage useful parts and components from computers and printers before disposal.</p>
	<p>2.1.7. The District Technology Department will review and approve any technology equipment that is being purchased, regardless of the funding source.</p>	<p>~The District provides all technology equipment for the schools based on the District Technology Plan, with funding from the Technology Override. Any other requisitions for technology equipment are reviewed by the Technology Department before they are turned into purchase orders.</p> <p>~The District has established a Technology Warehouse for replacement parts that schools would need to purchase, like mice, keyboards, etc.</p>
	<p>2.1.8. Technology will be available to meet the needs of 504, special needs, and gifted students.</p>	<p>See 2.1.5 above</p>

Kyrene District Technology Plan 2003-2008: Evaluation

Goal 2: The District will provide students and staff with equitable access to technology resources.		
Objective	Strategy	Evaluation
2.2. The District will establish standards to ensure that appropriate software will be available in classrooms, labs, media centers, and offices.	2.2.1. The District Software Toolkit will be the primary source of productivity software.	The District has created a Kyrene Toolkit comprised of a set of software applications, including but not limited to: Microsoft Word, Excel, Access, Outlook, FrontPage, PowerPoint, Publisher, and Internet Explorer, as well as Inspiration, Kidspiration, InspireData, KidPix, Adobe PhotoShop Elements and Premiere Elements, textbook specific applications, web applications, ReadandWrite Gold, etc. The applications are organized into sub-toolkits to make them readily available to the appropriate user. This image (computer organization and setup) is installed uniformly on all computers - laptops and desktops - districtwide.
	2.2.2. The licenses for all district toolkit or other standardized applications, will be kept current.	Licenses are reviewed and kept current by the Technology Department.
	2.2.3. All curriculum-related software will undergo a formal evaluation or adoption process before being implemented.	The District Software Review Committee, a sub-committee of the Curriculum and Assessment Council, is reviewing all software in use in the District and is designing a formal adoption and evaluation plan.
	2.2.4 There will be regular, formal evaluations to measure the effectiveness of computer-assisted instructional systems, like: Waterford, Riverdeep, etc.	
	2.2.5. All staff will set an example for students by complying with copyright regulations when creating online content or incorporating third party content into classroom materials.	Upon hiring, all staff complete an Acceptable Use Agreement that outlines the fact that they will follow adopted policies and procedures in accordance with copyright regulations.

Kyrene District Technology Plan 2003-2008: Evaluation

Goal 2: The District will provide students and staff with equitable access to technology resources.		
Objective	Strategy	Evaluation
2.3. The District will ensure that all students and staff have access to computers where and when they need them.	2.3.1. The District will provide extended computer lab hours for students who require the use of technology when it is not available at home.	Staff in Kids Club have been trained in the use of the computer labs and they may provide additional access for students in attendance. School staff and the Technology Department continue to work with Kids Club staff to ensure that the computers are being used in accordance with District Technology Standards and the AUP.
	2.3.2. The District will provide students and staff with computer equipment on a checkout basis when it is not available at home.	Computer equipment and software is available for students who are receiving home-bound instruction, through the district, due to medical absences.
	2.3.3. The District will seek community partnerships and grants to pay for Internet access when it is not financially-feasible at home.	No progress
	2.3.4. The District will educate students about the availability of technology resources.	~Students in KTCP classrooms have access to on-line learning environments via Class Server. ~Some students have access to on-line learning environments via Blackboard. ~Brainpop, Worldbook, and other Kyrene subscription resources are also available at home, as is the Educational Resources web page on the Kyrene home page. Individual teacher and school web pages are also available.
	2.3.5. The District will provide staff with home access to their files that are stored on the District's servers.	All non-hourly staff have access to their files through the District's VPN solution.
	2.3.6. Parents will be able to purchase a discounted set of programs in the Kyrene toolkit.	No progress
	2.3.7. The District will provide licensing so that all staff will be able to utilize productivity tools from home.	~Non-hourly staff that have District laptops may take them home and work from there. The District continues to search out solutions from Microsoft Office and other software vendors so that teachers may install them on home computers. ~The advent of VPN access and the laptops almost precludes the need for software to be loaded on home computers.

Kyrene District Technology Plan 2003-2008: Evaluation

Goal 2: The District will provide students and staff with equitable access to technology resources.		
Objective	Strategy	Evaluation
2.4. The District will ensure that the technology infrastructure and resources are kept in proper working order.	2.4.1. Technicians will be assigned, on a schedule to specific schools, in order to provide timely support and service.	Each Senior User Support Technician is assigned to provide support and service on a schedule to schools in a particular region. Each school is visited weekly.
	2.4.2. The District's networks will be maintained and updated to provide consistency of access and the necessary bandwidth.	<p>~The District installed a Qwest Metro Optical Ethernet Network which provides 100MBit of bandwidth from the District Office to each school and to the Internet.</p> <p>~The District's Data Center has been upgraded with state-of-the-art server racks and air conditioning systems to ensure maximum availability. All file servers have been moved from the individual schools to the District Office.</p> <p>~Each user, student and staff, has an individual log-in and password. In addition all users have both shared and individual storage space on network file servers.</p> <p>~The District has implemented a three-tiered approach to file security. All servers are located in the Data Center at the District Office. Data is backed up nightly to a separate location. A secondary backup is also done nightly to a third location. All backups are disk-to-disk-to-disk. In addition HR/Finance data is also backed up to the vendor site so that in case of complete failure of power or other disaster, payroll may still be maintained.</p>
	2.4.3. An online work order system will be implemented to provide tracking of service needs.	Over 50,000 work orders have been closed in five years through the Footprints Work Order System.
	2.4.4. All computer-related equipment will be purchased with a minimum three-year warranty, where possible.	Three-year warranties are standard on the work stations and laptops that are purchased. A five-year warranty is purchased on all file servers.

Kyrene District Technology Plan 2003-2008: Evaluation

Goal 2: The District will provide students and staff with equitable access to technology resources.		
Objective	Strategy	Evaluation
2.5. The District will establish a technology budget that reflects the goals of the District Technology Plan.	2.5.1. Funds will be allocated from Soft Capital and the Technology Bond for the purchase of technology equipment.	~In the past Capital Outlay, Soft Capital and Technology Bond have been used to purchase computer equipment. ~The Technology Override, approved on November 8, 2005, provides funds for seven years.
	2.5.2. All purchases of technology equipment will be made by the Technology Department utilizing the technology budget.	School leadership and Superintendent Parent Council have been informed that the District Technology Budget should provide all equipment. The schools should leverage any other funding sources for supplies.
	2.5.3. Each school will have an M&O budget line item for technology supplies.	~Schools have a technology replacement budget to purchase capital items for which they are responsible such as mice, keyboards, etc. ~The Technology Department has a budget for replacement of batteries and bulbs for computer-related equipment across the District.
	2.5.4. The District will seek grants and other outside funding to support the acquisition and implementation of new technology.	While the District has received some small grants in the past, it has been determined that some of the inherent requirements of these grants, such as specific brands of equipment, make them less desirable.
	2.5.5. The District will develop private sector and community partnerships in the area of technology.	The District received a three-year grant of approximately \$100,000 from the Intel Foundation to support professional development activities in the initial KTCP project implementation.

Kyrene District Technology Plan 2003-2008: Evaluation

Goal 2: The District will provide students and staff with equitable access to technology resources.		
Objective	Strategy	Evaluation
2.6. The District will ensure that students and staff are able to use technology in a safe environment.	2.6.1. Staff and Teachers will protect students from harmful internet content.	~Teachers are provided with training on ways to help protect students from harmful internet content (i.e. using launch pages, teacher webpage, student friendly search engines.) ~Online environments with access from home, such as Microsoft Class Server and Blackboard are also protected by the District Internet Content Filter.
	2.6.2. Internet filters and other technologies will be implemented to help make the use of the Internet safe for students and staff.	The District has implemented an Internet content filter called Websense. Email filtering is provided through Ironport security system.
	2.6.3. The district will continually evaluate which Internet sites are blocked in order to provide students and staff with access to necessary sites, while still protecting them from objectionable sites such as pornography, terrorism, etc.	Blocked sites are updated daily by Websense. In addition, the District Network Services group adds or deletes blocked sites as needed and within the parameters that are set.

Kyrene District Technology Plan 2003-2008: Evaluation

Goal 3: The District will systematically convert from being paper-driven to technology-driven in order to provide management and communication of information between the schools, departments, district, and community.		
Objective	Strategy	Evaluation
3.1. The District and school web sites will be the prime location for dispensing information to schools, parents, and the community.	3.1.1. The District, as well as each school/department, will regularly publish web pages that contain current information, events, etc.	The District publishes a website that includes a variety of information for staff, parents, students, and the community. Each school has its own web pages that provide school specific information.
	3.1.2. The District will provide systems to allow teachers to publish information about course outlines, requirements, homework assignments, and resources.	~Teachers are able to publish their own web pages that include information about classes and assignments, etc. ~Many teachers also publish their grade book for students and parents to review. ~The pages aren't always updated as frequently as they should be.
	3.1.3. All District internal and external forms will be available online via the District website.	A variety of District forms are available online.
	3.1.4. The District will further develop its website to contain an abundance of District documents and information, including policies, procedures, agendas, calendars, applicant information, etc.	The District website includes school and District calendars, a link to the District Policy Manual, meeting agendas and minutes, as well as a plethora of documents and other information.
	3.1.5. The District will explore various strategies to foster communication among groups. (Parent-to-Parent, Parent-to-Administration, Parent-to-Teacher, etc.)	The District has implemented a bulletin board system for the Parent Superintendent Council.
	3.1.6. The District will utilize survey software and other technology systems to gauge the opinions of staff, students, and parents.	The District has implemented a survey software package called Quask. It allows surveys to be published on the web and delivered to groups of people as necessary.

Kyrene District Technology Plan 2003-2008: Evaluation

Goal 3: The District will systematically convert from being paper-driven to technology-driven in order to provide management and communication of information between the schools, departments, district, and community.		
Objective	Strategy	Evaluation
3.2. The District will further develop its email system in order to maximize communication within the district and community.	3.2.1. Parent email addresses will be acquired, organized, and maintained in a database.	The Emergency Contact Card has been revised to include lines for email addresses. The District's Student Information System, Genesis, includes fields for email addresses so that the District and schools may use the email addresses to communicate with parents. Genesis also has a parent portal which should be implemented during the 2008-09 school year.
	3.2.2. Parents will register in a District Listserv to receive specific communications from teachers, schools, and departments.	The District Listserv has about 6000 email addresses.
	3.2.3. Parents and students will continue to be able to communicate with school and District personnel via email.	Many teachers have email addresses for the parents of students in their classes. Teachers create distribution lists to send weekly newsletters and updates to parents through email.
3.3. The District will provide staff, parents, and students with relevant online information about student progress, attendance, homework, etc.	3.3.1. The District will research and implement an integrated data warehouse system to facilitate the management and communication of data.	The District implemented a data warehouse that includes two products by TetraData and EDmin.com.
	3.3.2. The District will provide an electronic and integrative report card that has a printable version.	~An Excel version of the District Report Card has been created and is in use along with the NCR version at the elementary level. Middle School teachers use the Report Card in the Genesis Student Information System. ~Many middle school teachers post password-secure progress reports online to parents via Easy Grade Pro.
	3.3.3. The District will provide parents with electronic access to curriculum information and examples of student work so they can support their child.	The District curriculum is online and available for parents. Parents of students in the KTCP project may also access student work in Microsoft Class Server.

Kyrene District Technology Plan 2003-2008: Evaluation

Goal 3: The District will systematically convert from being paper-driven to technology-driven in order to provide management and communication of information between the schools, departments, district, and community.		
Objective	Strategy	Evaluation
3.3. The District will provide staff, parents, and students with relevant online information about student progress, attendance, homework, etc. (cont'd)	3.3.4. The District will provide the capability for schools and teachers to maintain digital student portfolios.	The Inform part of the Data Warehouse has this capability for students and teachers. Many teachers have created student portfolios through ad hoc systems.
	3.3.5. The District will use technological tools to meet the reporting requirements of No Child Left Behind.	The Data Warehouse provides the ability to disaggregate data according to all of the elements required for NCLB.
	3.3.6. The District will assist schools and departments with the technological capability to create reporting methods for statistical data and compilation of historical data required by district, state, and/or federal entities.	The Technology Department has worked with other departments and schools to provide a variety of data recording, analysis, and reporting tools.
	3.3.7. The District will be responsive to assist departments with data transmission for state and federal reporting requirements.	The Technology Department has assisted other departments with data transmission for state and federal reporting requirements.
3.4. The District will implement systems to allow school business to be carried out as easily as personal business.	3.4.1. The District will research and implement a web-based integrated business information system that includes: finance, payroll, human resources, accounts payable, accounts receivable, purchasing, fixed assets, warehouse, etc.	The District has implemented a web-based Human Resources/Finance System called Visions/iVisions. An add-on to this system is the Winocular Applicant Tracking System that is used for all employee classifications.
	3.4.2. The District will research and implement a web-based integrated student information system that includes: demographics, scheduling, grading, health, attendance, special education, IEP's, discipline, etc.	The District has implemented a web-based student information system called Genesis. The related Special Education System called Genesee should be implemented for the 2008-09 school year.
	3.4.3. The District will utilize technology systems to improve internal communication between departments and within departments.	~The new HR/Finance System and Student Information Systems will improve communication between and among departments and schools. ~Governing Board Meeting Software will be implemented for 2008-09. ~A Phone Dialer System will be implemented for 2008-09. The system will be used for emergency messaging (voice, text, email, etc.), and possibly for attendance and announcements.

Kyrene District Technology Plan 2003-2008: Evaluation

Goal 3: The District will systematically convert from being paper-driven to technology-driven in order to provide management and communication of information between the schools, departments, district, and community.		
Objective	Strategy	Evaluation
3.5. The District will implement a system to continuously examine and refine the technology planning efforts.	3.5.1. The District 5-Year Technology Plan will be evaluated, reviewed, and updated each year.	The District Technology Committee will meet to review the current Technology Plan and to the new 5-Year Plan.
	3.5.2. Each school, as part of their School Improvement Plan, will include technology objectives and plans.	Each school has a School Technology Committee which includes site staff as well as the Regional Educational Technology Specialist and Senior User Support Technician.
3.6. The District will include the Schools Interoperability Framework (SIF) in the evaluation and decision-making about implementing technology systems.	3.6.1. All District technology systems will be researched and reviewed to follow SIF standards.	All new systems are built on the SQL and .NET frameworks, and thus are designed to interact. In many cases data is extracted from these systems and made available through the data warehouse systems.
	3.6.2. All Requests for Proposal (RFP) or Bid documents for technology systems will reference SIF standards.	RFP and Bid documents ask for SQL and .NET framework applications.

Kyrene District Technology Plan 2003-2008: Evaluation

Goal 4: The District will provide ongoing staff and community development and training in the use of technology resources.		
Objective	Strategy	Evaluation
<p>4.1. Teachers will use research-based, best practice teaching strategies to integrate technology into the curriculum to increase student achievement.</p>	<p>4.1.1. The District will provide a regular schedule of technology training classes for teachers.</p>	<p>~ A wide variety of technology training classes is offered through the District PGO System. Classes are scheduled for after school, early release, and vacation periods.</p>
	<p>4.1.2. The District will provide technology integration training opportunities during staff development days.</p>	<p>~ Educational Technology Specialists meet regularly with KTCP learning teams in elementary and middle schools.</p>
	<p>4.1.3. The District will provide teachers with training to differentiate technology for various grade levels.</p>	<p>~ Educational Technology Specialists meet regularly with KTCP learning teams in elementary and middle schools.</p>
	<p>4.1.4. The District will post exceptional lesson plans on the District website, and provide a forum for the online discussion of the lessons.</p>	<p>~The Data Warehouse (Inform) provides the ability to electronically access curriculum objectives, resources, lesson plans, and assignments. Not all information is currently loaded.</p> <p>~The District has also created online resources such as the Harcourt Trophies Literacy activities and resources.</p>
	<p>4.1.5. The District Technology Curriculum will be integrated into all subject area curricula.</p>	<p>The District Technology Curriculum has been presented to the Governing Board for approval. The intent is that the Objectives in the Technology Curriculum will eventually be integrated into the appropriate subject area curriculum so that Technology will not be taught as a curriculum unto itself.</p>
	<p>4.1.6. Technology Integration will be part of the Teacher Evaluation Plan.</p>	<p>~KTCP teachers share technology integration artifacts in their summative conferences using wireless laptops.</p> <p>~Ed Tech Specialists consult with KTCP teachers and administrators on integration expectations in evaluations.</p> <p>~Some teachers have created online portfolios to present during their conferences.</p> <p>~Some principals have required that lessons presented for evaluation purposes include technology integration.</p>

Kyrene District Technology Plan 2003-2008: Evaluation

Goal 4: The District will provide ongoing staff and community development and training in the use of technology resources.

Objective	Strategy	Evaluation
4.2. Administrators will provide leadership for their staff in the use of technology resources.	4.2.1. Administrators will support technology integration through staff development activities.	Principals at the elementary and middle schools are active participants in the KTCP learning team meetings.
	4.2.2. Administrators will receive training in how to evaluate teachers' integration of technology.	Principals at the elementary and middle schools are active participants in the KTCP learning team meetings.
	4.2.3. Administrators will model the use of technology in their staff and community publications, meetings, etc.	~School administrators have laptops and regularly use the technology as part of their staff meetings, evaluations, etc. ~Principals take an active role in meetings with the KTCP learning teams at their schools.
	4.2.4. The use of technology will be part of the Administrator Evaluation Plan.	The Administrator Evaluation Document includes the following indicator: Plans and implements the integration of technological tools in teaching, learning, management, research, and communication responsibilities.
4.3. The District will develop innovative programs that encourage all staff to pursue avenues of growth in technology that are innovative, creative, and effective.	4.3.1. The District will identify the best practices gleaned from previous technology training initiatives to design a new Kyrene Technology Teacher Training Program.	The District Technology Department has designed and implemented the KTCP project. This is an evolutionary process based on the Intel Ace, Intel Teach to the Future, and Project Venture.
	4.3.2. The District will establish a Technology Cohort Master's Degree Program through one of the universities.	No progress
	4.3.3. The District will establish pilot programs, at individual schools, centered on grade level and/or entire staff adoption of specific technology best practices.	The Educational Technology Specialists work with teachers and the Curriculum Department to identify specific hardware and software technology resources to be implemented.
	4.3.4. The District will maintain Educational Technology Specialists to teach, coordinate, consult, and model exemplary teaching strategies.	~ There is one Educational Technology Specialist assigned to each Region. They work extensively with KTCP learning teams and with individual classroom teachers to teach, coordinate, consult, and model exemplary teaching strategies. ~ In order to provide continuity, there is a Senior User Support Technician assigned to each Region. Thus the Educational Technology Specialist and the Senior User Support Technician act as a unique support team.

Kyrene District Technology Plan 2003-2008: Evaluation

Goal 4: The District will provide ongoing staff and community development and training in the use of technology resources.		
Objective	Strategy	Evaluation
4.4. All support staff will use technology to carry out the duties of their jobs.	4.4.1. The District will provide a regular schedule of technology training classes designed to meet the general and specific needs of all staff.	~ A wide variety of technology training classes is offered through the District PGO System. Classes are scheduled for after school, early release, and vacation periods.
	4.4.2. The District will provide technology training opportunities during staff development days.	~ Classes are offered for specific departments as requested. ~ While support staff may attend classes on staff development day, it is difficult to find the necessary time during the rest of the year.
	4.4.3. The District will seek out technological systems that make work more efficient and effective.	The iVisions Human Resources/Finance System and Genesis Student Information Systems are both designed to make work more efficient and effective.
4.5. The District will provide the community with opportunities to increase adult technology literacy.	4.5.1. The District will provide extended computer lab hours for parents and community members who require the use of technology when it is not available at home.	No progress
	4.5.2. The District will educate parents and community members about the availability of technology resources.	The Kyrene Family Resource Center provides various adult education opportunities to families. These opportunities include adult education, ESL, GED, and parenting resources.
	4.5.3. The District will provide a variety of technology training opportunities for parents and community members.	The Kyrene Family Resource Center provides GED courses to families which includes basic computer literacy programming. It also offers an adult ESL class. Parents are taught how to use Microsoft Word to develop resumes and contact letters. They also learn how to use Internet resources to search for career information.

Professional Development in Technology in Kyrene

Professional Development in technology is provided in a number of ways. Certainly the main strategy is to provide mentoring to the grade level learning teams through KTCP. This reinforces the fact that technology is a tool and that it is the integration of technology into all of the other curricula that makes this project so successful. Educational Technology Specialists and/or Site Leaders meet monthly with the KTCP Learning Teams, including the building administrator, to provide the mentoring.

The second avenue of professional development is through courses that are offered in the Professional Growth Online component of INFORM, the District's Data Warehouse application. Courses focus on the use of technology and not on the technology itself. This, once again, reinforces the fact that technology is a tool for instruction and learning. During the 2007-08 school year, over 420 hours of technology courses were offered. Enrollments numbered 718 for a total of 5626 participant hours. Some of the course titles are as follows:

Course
Audacity in the Elementary Music Classroom
Creating Integrated Lessons Using Class Server
Creating Launch Pages for the Preschool Classroom
Easy Grade Pro in PE Instruction and Assessment
Enhancing Class Instruction with Digital Video
Enhancing Research & Study Skills with Read&Write Gold
Finale in the Music Classroom - Introduction
Improving Communication with your Web Page
Inspiring Mathematical Thinking with InspireData
Integrating the Kyrene Toolkit 6-8
Integrating the Kyrene Toolkit K-5
Middle School - Class Server: Basics
Read & Write Gold: Train the Trainers
Supporting Teaching & Learning Using Read&Write Gold: Basics
Teaching Using Flexible Workstations - Mid School
Teaching with Adobe Photoshop Elements
Teaching with Microsoft Class Server: Basics
Using a SmartBoard in the K, 1 & Elementary Resource Classes
Utilizing Student Electronic Portfolios
Working Smart: Get Organized!

District Technology Committee

The Kyrene District Technology Committee, composed of 50 teachers, administrators, support staff, and parents met during April 2008 to review and evaluate the *Kyrene District Technology Plan 2003-2008* and to write the new *Kyrene District Technology Plan 2008-2011*. The members of the Technology Committee were chosen, not only for their technological expertise, of which they had much, but also for their interest and diversity. Since the Technology Plan is truly intended to be a roadmap for all areas of the District, it was important to include representation from every school, grade level, subject area, and department.

The members of the Kyrene District Technology Committee are identified in the following table:

Kyrene District Technology Committee

Name	School/Site	Position
Alexander, Devona	Kyrene del Norte	Parent
Alexander, Kelly	District Office	Director Community Education
Anderson, Sandy	District Office	Admin Support
Beutner, Daniel J.	Aprende Middle School	6th Grade Social Studies
Beutner, Jennifer	Kyrene del Sureno	3 rd Grade
Boergers, Mary J	Kyrene de las Brisas	2 nd Grade
Burgess, Heidi	Centennial Middle School	Sp Ed
Burton, Paige	Kyrene de la Sierra	4 th Grade
Butler, Tricia	Aprende Middle School	MS Admin Secretary
Carranza, Sarah	Akimel Middle School	Spanish
Coven, Kathy	Kyrene de la Paloma	4 th Grade
Croskey, Meegan	Kyrene del Norte	1 st Grade
Dalton, Leila	Akimel Middle School	MS Admin Secretary
Fahy, Michelle	District Office	Educational Technology Specialist
Fasulo, Jani	District Office	Purchasing Manager
Grams, Kathy	District Office	Educational Technology Specialist
Grossnickle, Christy	District Office	Educational Technology Specialist
Hellinghausen, Heidi	Kyrene de la Estrella	Media Specialist
Norman, Bobby	Kyrene de los Cerritos	2nd Grade
Hyllested, Diane	Pueblo Middle School	7th Grade LA
Irvin, Deborah A	Kyrene de la Colina	4 th Grade
Johnson, Michelle	Aprende Middle School	MS Computer Media
Klein, Janet	Kyrene de la Mariposa	Art
Langston, Dan	Kyrene de las Manitas	Principal
Lappegard, Ana	District Office	Hardware System Specialist
Lindemann, Aimee	C.I. Waggoner	Resource
Meade, Gina	Altadena Middle School	8th Grade LA
Monrad, Benjamin	District Office	Software System Specialist
Mosteller, Linda	District Office	Asst Director Sp Ed
Mudd, Kathlene	Kyrene de la Mirada	Media Specialist
Neville, Daniel	District Office	Asst Director Technology
Nield, Lynette	District Office	Educational Technology Specialist
Oliver, Tracy	Kyrene de la Mariposa	Parent
Poole, Susan	Kyrene Middle School	Principal
Poveromo, Nick	Kyrene Middle School	MS Computer Media
Priznar, Amie	Kyrene del Milenio	3 rd Grade
Richards, Liza	District Office	Educational Technology Specialist
Santillan, Esther	Kyrene de los Ninos	1 st Grade
Saylor, Cheryl L.	Altadena Middle School	7th Grade Math
Schwartz, Karen	Kyrene de la Esperanza	3 rd Grade
Share, Mark	District Office	Director Technology
Shurman, Jo	District Office	Resource
Skoglund, JoAnne	Akimel Middle School	6th Grade Science
Smith, Karin	District Office	Director Business Services
Smith, Michele	Kyrene de las Manitas	Media Specialist
Sorgel, Jacinta	District Office	Educational Technology Specialist
Swanson, Susan	District Office	Assistive Tech
Tatterfield, Terry	District Office	Assistant Super Support Services
Torok, Mary Jane	Centennial Middle School	8th Grade Social Studies
Wheeler, Dave	District Office	Facilities Supervisor
Whiteley, Amy	Altadena Middle School	Parent

LEA Profile

The Arizona Department of Education (ADE) requires the following “snapshot” of the District be included in the District Technology Plan:

LEA Profile	
LEA NAME:	Kyrene School District
CTDS:	07-04-28-000
Number of Schools in LEA	25
Number of Teachers	1126.95
Number of Students Enrolled	18442
Percent of Students Eligible for Free/Reduced Lunch	17.50%
Teacher/Student Ratio	1:16.28
Student/Computer Ratio	2:1
Number of Schools Identified as Excelling	22
Number of Schools Identified as Highly Performing	3
Number of Schools Identified as Performing and Performing Plus	0
Number of Schools Identified as Underperforming	0
Based on Census Tract Information, Is Your Entity Rural or Urban	Urban

District Technology Coordinator/Contact			
Name:	Mark Share	Telephone #:	(480) 783-4135
School District:	Kyrene School District #28	Fax #:	(480) 783-4152
Address:	8700 S Kyrene Rd Tempe, AZ 85284	Email:	mshare@kyrene.org

Governing Board	
President:	Sue Knudson
Vice President:	Rich Zawtocky
Member:	Mitzi Epstein
Member:	Patrick McGill
Member:	Rae Waters

Superintendent	
Superintendent	Dr. David Schauer

Kyrene School District: Technology Funding Sources and Costs

Annual Budget Summary: 2008-2009				
Acquired Technologies and Professional Development	Ed Tech Formula/Title II-D	M&O	Technology Override	E-Rate
Hardware			\$5,800,000	
Software			\$1,000,000	
Professional Development	98% of Allocation Approx. \$12,800	\$410,000		
Internet Services		\$49,182		\$40,240
Phone Services		\$246,525		\$201,702
Indirect Costs	\$200			
IT Department /Technical Support		\$800,000	\$200,000	
2008-2009 TOTAL	\$13,000	\$1,505,707	\$7,000,000	\$241,942

Annual Budget Summary: 2009-2010				
Acquired Technologies and Professional Development	Ed Tech Formula/Title II-D	M&O	Technology Override	E-Rate
Hardware			\$5,790,000	
Software			\$1,000,000	
Professional Development	98% of Allocation Approx. \$12,800	\$430,500		
Internet Services		\$49,182		\$40,240
Phone Services		\$246,525		\$201,702
Indirect Costs	\$200			
IT Department /Technical Support		\$840,000	\$210,000	
2009-2010 TOTAL	\$13,000	\$1,566,207	\$7,000,000	\$241,942

Annual Budget Summary: 2010-2011				
Acquired Technologies and Professional Development	Ed Tech Formula/Title II-D	M&O	Technology Override	E-Rate
Hardware			\$5,779,500	
Software			\$1,000,000	
Professional Development	98% of Allocation Approx. \$12,800	\$452,025		
Internet Services		\$49,182		\$40,240
Phone Services		\$246,525		\$201,702
Indirect Costs	\$200			
IT Department /Technical Support		\$882,000	\$220,500	
2010-2011 TOTAL	\$13,000	\$1,629,732	\$7,000,000	\$241,942

Assumptions:

Salaries will increase approximately 5% per year.

No additional staff hired during the three years.

No increase in telecommunications or internet charges based on five-year contract.

No change in percent of free and reduced lunch (part of E-rate calculation).

No change in Title II-D allocation.

Technology Override is in effect for all three years of Technology Plan.