

Grandview Consolidated School District # 4

District Technology Plan 2007-10

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INTRODUCTION AND OVERVIEW

In the spring of 2006, the Technology Advisory Committee convened to review the current technology plan, identify strengths and challenges of implementing the 2004-07 Technology Plan as well as make recommendations for our 2007-10 planning process. In the fall of 2006 a new district Technology Planning Committee convened to begin the process of creating our new District Technology Plan. The primary charge was to review the Data Sources provided, analyze data and provide a report on the current status of technology implementation in Grandview CSD#4 and provide a clear vision, develop new goals, objectives and action strategies for the future of technology in the District.

In the initial review stages, the committee found that the District has made some substantial strides in implementing the 2004-2007 Technology Plan. Some of the major accomplishments include:

- Implementation of the K-12 Technology Competencies
- Updating district system software adding better protection
- Upgrading Communication software applications
- Enhancing the district intranet site making it more comprehensive and user friendly
- Providing quality professional development activities to district staff
- Replacing all teacher desktop and many classroom student computers
- Increased bandwidth to each school site.

The technology committee worked diligently to review the data and ensure the revised plan is based upon the needs of our District. This District is at the beginning of an exciting technology initiative that we believe will place Grandview C-4 students, staff and parents at the forefront of today's educational information and technology reform innovations. Our new plan continues the work of our 2004-07 Plan and also includes strategies to:

- Improve communication between school and home using technology resources
- Select and implement robust data management systems
- Create a district-wide standard for classroom hardware and instructional software
- Create a more in-depth K-12 Technology Curriculum
- Increase our efforts to integrate technology into the classroom with new professional development initiatives
- Increase the opportunities students have to take computerized delivered coursework
- Utilize technology resources to improve and expand professional development opportunities
- Establish policies and procedures associated with data management, resources and communications within and outside the district
- Select and implement data management systems that are SIF compliant
- Increase bandwidth, update servers and routers in the District network infrastructure
- Decrease the student to computer ratio, and
- Increase the level of support for this new technology district initiatives

The new C-4 District Technology Plan is consistent with the MSIP Standards, our district CSIP, ISTE NETS for Students, Teachers and Administrators, Grandview Core Curriculum goals and the federal Title II D programs.

Description of District

The Grandview community is composed of 25,000 citizens with diverse cultural, social, and economic backgrounds. Grandview is located in south Jackson County and offers instructional services to approximately 4000 students in grades K-12. Small service and sales businesses, national franchises and outlets, and some manufacturing companies provide jobs within the community. Residents are also employed in various blue and white-collar jobs throughout the Kansas City metropolitan area. Ample housing is available to citizens of all income levels ranging from expensive homes to very affordable dwellings. Eighteen apartment complexes are within the city limits, including fifteen, which offer housing through HUD vouchers. The community is proud of its diversity, having experienced a growth in the minority population from 15% in 1987 to 62% in 2006. Presently 59% of the students attending CD#4 have African-American backgrounds and 11% are of Hispanic, Asian, or other minority backgrounds. Approximately 59% of CSD#4 students receive free and reduced lunches; five of our six elementary schools qualify as Title I schools.

| Grandview Schools | |
|------------------------------|-------------|
| School | Enrollment |
| Belvidere Elementary | 303 |
| Butcher-Greene Elementary | 246 |
| Conn-West Elementary | 254 |
| High Grove Elementary | 285 |
| Meadowmere Elementary | 386 |
| Martin City K-8 | 569 |
| Grandview Middle School | 648 |
| Grandview High School | 1195 |
| Grandview Alternative School | 72 |
| Total | 3958 |

The CSD#4 community supports the funding of technology distribution and instructional use through a Bond Levy. All hardware is currently purchased through bond issue funds. The Information Technology Services Department is under Business and Finance supervision in the district while Instructional Technology is under the supervision of Curriculum and Instruction. Both areas work collaboratively to meet the action step strategies described in our technology plan as well as other district-wide initiatives. The C-4 Technology Plan is designed to support our district CSIP and site based School Improvement Plans. The District plan is aligned to the State Educational Technology Strategic Plan 2007-11, the ISTE NETS Standards and the federal Title II D programs.

Description of Technology Committee

The goal of the District Technology Committee was to revise and update the current District Technology Plan which expires in 2007. This new plan's priority is to establish goals, objectives and activities as defined by DESE's Technology Planning process for effective integration of technology into instructional and operational programs of the District.

The committee members were selected by inviting individuals who would be willing to commit their time and knowledge to help develop a plan that will support students, staff, and community. Members of this committee were identified from the past District Technology Committee, and recommendations from administrators and coordinators.

During the planning process each member served on a TFA sub-committee which met many times during the process to write their portion of the plan. The full committee met to review the work of each TFA sub-committee.

The District Technology Committee focused on issues relating to technology including, but not limited to:

- Development of a three year Technology Plan
- Presenting the Technology Plan to the School Board for approval.
- Evaluating the Technology Plan, at least once a year.
- Select from their membership an Advisory Committee to conduct formal review to monitor the implementation progress on a quarterly basis.
- Serve on sub-committees to address issues of their assigned TFA.

The Instructional Technology Coordinator served as facilitator for the Technology Plan's development. This Coordinator and the Director of Information Technology Services (ITS) Department will be responsible for the plan's implementation, with oversight from CSD#4's Superintendent and Assistant Superintendent for Curriculum and Instruction.

From the membership of this District Technology Planning Committee a new Technology Advisory Committee has been formed. The Advisory Committee will be responsible for formally reviewing the District Technology Plan each year and preparing a report for the Board of Education. The members of the District Technology Plan Committee may serve on sub-committees during the implementation of this plan.

The plan is a guide that will be used for technology planning, budgeting, and implementation with revision and corrections made as needed. The written plan is available to all staff members, Board of Education members, and anyone in the District or community who requests to see it. A copy is on file in each school's library. It is also posted at <http://www.csd4.k12.mo.us>

| |
|---|
| DISTRICT TECHNOLOGY PLANNING COMMITTEE |
|---|

| Name | Location | Position | TFA |
|-------------------------------------|-------------------------|------------------------------|------------|
| Liz Means, Chair-TFA 1 | Martin City | Assist. Principal | 1 |
| Margaret Arthur | Belvidere | Parent | 1,2 |
| Lucy Howell | Belvidere | Librarian | 1,4 |
| Jenna Rhodes | Grandview High School | Teacher | 1 |
| Kristi Stricker | Meadowmere | Teacher | 1,2,4 |
| Michele Seaholm, Chair-TFA 2 | ISC | PD/Grant Coordinator | 2 |
| Alice Blizzard | PDC | Teacher | 2 |
| Jim Brock | Herndon Career Center | Community/Parent | 1 |
| Lori DeAnda | CAIR | Coordinator | 2 |
| Amy Rice | Grandview High School | Teacher | 2 |
| Jim Russell | Belvidere | Principal | 2 |
| Cindy Clevenger, Chair-TFA 3 | ISC | | 3 |
| Anthony Finger | Grandview Middle School | Assistant Principal | 3 |
| Lane Lucas | ISC | Public Relations Coordinator | 3 |
| Elonia Norwood | Community | Parent | 3 |
| Brenda Barton, Chair TFA-4 | Conn-West Elementary | Librarian | 4 |
| Stephanie Copen | Conn-West | Teacher | 1,2,4 |
| Gwen Maxwell | Community | Parent | 4 |
| Aaron Barnaby, Chair TFA-5 | ITS | Technician | 5 |
| Randy Fajen | ITS | Director | 3,4,5 |
| Jon Brax | Board of Education | School Board | 1,5 |
| Ann Marie Cook | ISC | Business Finance Coordinator | 5 |

| Name | Location | Position | TFA |
|---|-----------------------|---|------------|
| Barbara Tate | ISC | Assist. Superintendent for Curriculum and Instruction | 1,2,3,4,5 |
| Debbie Anthes | Conn-West Elementary | Teacher | 1,2,3,4,5 |
| Yvonne Bradley | Martin City K-8 | Teacher | 1,2,3,4,5 |
| Julie Brown | Grandview H.S. | Teacher | 1,2,3,4,5 |
| Sherri Clark | Martin City K-8 | Teacher | 1,2,3,4,5 |
| Dawn Else | Belvidere | Teacher | 1,2,3,4,5, |
| Bruce Evans | ISC | Director of Instructional Technology | 1,2,3,4,5 |
| Dawn Foy | High Grove Elementary | Teacher | 1,2,3,4,5 |
| Cynthia Godwin | Grandview Middle | Teacher | 1,2,3,4,5 |
| Dorothy Walk | Meadowmere Elem. | Librarian | 1,2,3,4,5 |
| Grandview High School Student Focus Group TFA 1,2 | | | |
| Nichole Anderson – 12 | Zach Butler - 10 | Amada Cates - 12 | |
| Claude Fantroy -10 | Josh Frutchey -11 | Kevin Graham - 10 | |
| Charles Hams - 11 | Lenesha Holt -12 | Amber Horn - 11 | |
| Jordan Johnson - 12 | Ryan Johnson - 11 | Tonea Johnson -10 | |
| Mike Myers -11 | Adam Jones - 11 | Jordan Knight -11 | |
| Jacob Mann -11 | JaVon McGee -10 | Bryte Moore -10 | |
| Taylor Mozee - 11 | Sean Palmer - 10 | Elizabeth Payne - 11 | |
| Brittany Peery - 11 | Leaven Phillips - 11 | Britney Potts -11 | |
| Deleshia Reese - 10 | Melicia Rentie - 10 | Matt Robinson - 11 | |
| Thomas Rutherford - 11 | Jeremy Settles - 11 | Tim Shumate -11 | |
| Brooke Smith - 12 | Vanessa Sorey - 12 | Dominic Thomas - 11 | |
| Jouvanne Thomas -10 | Jon Thompson - 12 | LaEisha Tillman - 12 | |

District Mission Statement

In an environment of dignity, diversity, and change, our commitment is to provide a wide range of educational opportunities to instill in all students and staff the motivation for lifetime learning, and to develop and demonstrate character traits in preparation for ethically responsible citizenry.

Technology Mission Statement

Our mission is to incorporate technology as an integral part of a quality educational program that will improve teaching, learning and increase student achievement. We will utilize technology as a tool to problem solve, analyze, communicate, and research. CSD#4 will address all Technology Plan Focus Areas to insure that technology is an element of improving student learning by incorporating it into school management, classroom instruction, professional development and curricular activities. Effective use of technology in education will provide a foundation for success and to better prepare students, staff, parents, and community for life-long learning.

Technology Vision

CSD#4 is committed to providing a motivating and challenging learning environment that will improve student achievement and success for life. To ensure the accomplishment of our mission to improve student achievement, productivity, and communication the District envisions site based and central office activities that will:

- ◆ Ensure seamless integration of technology into the curriculum that is aligned to the Grade Level Expectations.
- ◆ Build 21st Century skills in students (e.g., critical thinking and sound reasoning, global awareness, communication skills, information and visual literacy, scientific reasoning, productivity and creativity)
- ◆ Increase student engagement in learning.
- ◆ Increase relevance and integrate real-world applications of technology in the teaching/learning process.
- ◆ Close the digital divide by increasing technology literacy in all students.
- ◆ Use technology to improve student achievement (CSIP Goal 1, Objective 1) and systems management (CSIP Goal 4, Objective 1).
- ◆ Monitor, evaluate and revise implementation as outlined in each Technology Focus Area Action Plan.
- ◆ Commit resources for professional development to promote District-wide improvement in technology skills and use.
- ◆ Implement effective technology integration strategies into instructional practices.
- ◆ Improve communication to parents through technology opportunities.
- ◆ Overcome funding barriers through research for additional funding sources and strategic planning and utilization of available resources.
- ◆ Provide administrative and management systems to maintain inventories, student and financial records with responsive technical support for all programs and systems.

Our District technology mission and vision statements guided the development and of this plan. The implementation of our plan will be directed by the goals and objectives that are outlined in each TFA Action Plan that include action strategies and progress measurements.

CSD#4 CSIP Goals and Objectives

Goal 1: Students will achieve at high levels

- ◆ **Objective 1:** The District will meet the MSIP Student Performance Standards and achieve Adequate Yearly Progress as defined by NCLB.
 - Strategy 1: Develop and implement a systematic framework to promote achievement at high levels for all students.
 - Strategy 2: Implement intervention, at-risk measures, and extended learning programs for students not progressing toward proficiency.
 - Strategy 3: Promote achievement in Reading/Language Arts as a high priority and develop a framework for increasing student performance in reading.
 - Strategy 4: Identify students who are at-risk for failure to meet standards for reading proficiency and implement structures for providing more time and support.
 - Strategy 5: Implement research-based best practices and intervention programs for at-risk students in reading.
 - Strategy 6: Align its K-12 curriculum and resource adoptions in compliance with the MSIP Curriculum Standards.
 - Strategy 7: Develop common assessments, with scoring guides, which support its K-12 Curriculums. Student achievement data will be used in planning for school improvement, professional development, and revision of curriculum.
 - Strategy 8: Implement a framework for school improvement of district LMC facilities, resources, and services.
 - Strategy 9: Promote effective teaching practices through job-embedded on-going professional development using best practices.
 - Strategy 10: Promote effective teaching strategies by providing opportunities for professional development through collaboration.
 - Strategy 11: Promote effective teaching strategies by providing opportunities through instructional coaching.
 - Strategy 12: Encourage teachers to take charge of their learning by designing personal professional improvement plans annually that take advantage of specializing professional development opportunities to meet their individual learning needs.
 - Strategy 13: Promote teaching practices and local standards through well-articulated curricular lessons using technology.
 - Strategy 14: Promote effective teaching practices by providing strategic placement of equipment and technology resources to coincide with readiness for use.
 - Strategy 15: Promote effective teaching practices by providing professional development activities using technology.
 - Strategy 16: Establish GVNet discussion boards, tutorials, electronic manuals, and other information for teacher use in planning instruction, reflection, and collaboration.

Goal 2: The percentage of students completing an educational program will increase or be maintained at a high level.

- **Objective 1:** At least 88% of each cohort class will graduate, and the annual dropout rate will not exceed 4%.
 - Strategy 1: Explore expansion of alternative and extended day academic programming and support for K-12 students and parents to include, but not be limited to: alternative programs for elementary and middle school

- students; programs for long-term suspended students and drop-outs; credit recovery; parent classes and child care for teen parents.
- Strategy 2: Develop and implement systematic programmatic procedures to increase educational persistence to graduation.
- Strategy 3: Implement effective alternative instructional programming for at-risk students.
- Strategy 4: Encourage parent involvement in their students' progress at all levels.
- Objective 2: The District's average daily attendance rate will be at 95% or higher.
 - Strategy 1: Develop and implement policies and procedures to facilitate improved student attendance.

Goal 3: The percentage of students demonstrating adequate preparation for post secondary education and/or employment will increase or be maintained at a high level.

- Objective 1: Seventy five percent (75%) of the district's graduates will be employed and/or attending post-secondary training within one year of graduation.
 - Strategy 1: Prepare students for post-secondary options.
 - Strategy 2: Provide counseling services for college and career choices.
 - Monitor alumni career choices to determine effectiveness of programming.

Goal 4: Support services will provide a healthful, clean, well-maintained, and appropriate environment conducive to student learning and staff effectiveness.

- Objective 1: Support services departments will increase effectiveness of services and decrease costs by 5%.
 - Strategy 1: Increase the efficiency and effectiveness of the Maintenance/Custodians, Food Services, health Services, and ITS services departments.
 - Strategy 2: Develop a framework to increase the efficiency of Maintenance/Custodial, food Services, Health Services, and ITS departments.
 - Strategy 3: Develop a plan for updating and replacement of technology equipment and software.
 - Strategy 4: Develop a plan to upgrade server to efficiently meet increased usage.
- Objective 2: One hundred percent (100%) of school facilities will adequately support instructional goals and objectives.
 - Strategy 1: Assure that school facilities and instructional equipment meet the requirements necessary for effective student learning.

The C-4 District Technology Plan supports the CSIP Goals and objectives. Improving student achievement through the use of technology and training are important district focus areas of the current and next District Technology Plan. The following are current and future examples of technology supporting student achievement with the CSIP alignment in parenthesis:

- Read 180 Program and SRI (District wide) are reading programs that impact student achievement in reading. (1.2.4, 1.3.1, 1.4.5)
- Technology integration in the classroom has expanded through the TAP and eGITS programs and the use of Multimedia carts, LCD Projectors, wireless PC's and TeamBoards in district classrooms further engage students in learning activities. (1.13.3-4, 1.14.1-3,5)
- The district subscribes to United Streaming, a media rich digital resource aligned to GLE's and core curriculum objectives (1.13.2, 1.13.5-6, 1.14.1, 1.14.6)
- The district subscribes to netTrekker an online supplemental resource that is a search engine for teachers, students and parents available 24 hours a day, seven days a week. (1.13.2, 1.13.5-6, 1.14.1, 1.14.6)
- One of our schools has two (2) eMINTS classrooms while all other schools have at least one (1) eGITS (Gradview's Model) at various grade levels. (1.13.4, 1.14.5)
- Future eGITS training will increase to all teachers in the district. (1.13.4, 1.14.5)
- Training for all administrators will be developed and implemented in the district during the next 3 years. (1.15.1-3, 1.15.5-7)
- I Can Learn Math labs are implemented at all middle schools I Can Learn Algebra lab is implemented at the high school. (1.13.6)
- The 2007-10 Technology Plan directs the district to select and implement of a district-wide Instructional Management system designed to allow teachers and Central Office Coordinators to create common and district assessments and associated proficiency reports with results available immediately. Additional features will allow the alignment of locally developed and web based resources to core curriculum objectives. (1.14.1)
- Project Lead the Way: Inventor Software pre engineering courses at the high school. (1.13.6, 1.14.6)
- NovaNET computerized instructional delivery system for alternative education at the C.A.I.R. facility. (1.13.5-6, 1.14.2)
- Successmaker-individualized computer driven activities for student instruction. (1.13.6, 1.14.2)

Description of CSD#4 Technology

CSD4 Voice/Data Network

WAN/LAN

Consolidated School District #4 currently employs a WAN (Wide Area Network) to interconnect all of the District schools and support organizations. All of the main voice and data resources are centrally located at the Data Center at 13007 10th Street, Grandview Missouri. Each of the eight remote locations is connected to the Data Center via two T1 circuits; one to carry voice traffic and the other is utilized for data transmission.

Dell servers located in the Data Center provide all users logon services as well as access to email, Internet, FTP, and Web services. These servers operate on Windows Server 2003. MoreNet provides T1 connection to the Internet. The District proxy server provides Internet sharing and filtering for all users. Filtering service is provided by Smart Filter™ and is automatically updated twice each week.

The District maintains a Web Page on the Internet that is available at <http://www.csd4.k12.mo.us>. The web page contains updated news and information about the District and provides a web page for each school. Downloadable podcasts are also available on the District Web Page. The District also utilizes an Intranet Site that provides information as well as access to shared District resources, forms, online training tutorials, and databases. The Intranet (GVNet) is available to employees locally only.

At each school location, Local Area Network service is provided over a switched 100 Meg Ethernet Network. Every classroom is wired with a minimum of four category 5 cable locations, one for voice equipment and the other locations provide LAN connections for either teacher or student PC's. Dell Servers running Windows Server 2003 provide local services for teachers, staff, students, building printers, and the automated library and food service systems. Each teacher has a Dell PC in the classroom that is connected to the LAN. Wireless mobile labs have also been installed at the High School, both Middle Schools, and all elementary schools except for Conn-West.

All District users are standardized on Microsoft Windows XP© for the operating system on the client PC's. Microsoft Office 2003 Professional Suite is used for employees and students. District email users access the Microsoft Exchange email server using Microsoft Outlook 2003©.

District financial records (SISFIN) are maintained on a Dell server located at the Data Center, and are available over the WAN for access at each building by authorized administrators and teachers.

Student Records (SISK12) are maintained on Dell Servers located in each building with a centralized database containing all building server information located at the Data Center. Each building server updates the centralized Student Record Server each night.

The CSD4 utilizes a WSUS server (Windows Updates) at each building which automatically updates all pc's in that building with the latest windows updates, patches, and hot fixes.

Virus protection is provided by Symantec Antivirus Enterprise addition that allows all servers and desktop pc's to receive the latest virus definitions as well as run daily antivirus scans on all pc's in the District.

A Cisco PIX firewall provides security for the connection to the internet.

Voice

A Siemens Hicom© 300 Model 80 PBX located at the Data Center is the hub of the voice network for CSD#4. The District is connected to the public switched voice network with two Primary Rate Smart Trunk™ spans. Each of these spans provides dynamically allocated in and out bound voice traffic for all district locations. Each school has its own Siemens Hicom© PBX that connects to the Data Center via the voice T1 circuit for intra-district voice communication. The local school PBX provides digital telephone service to each office and classroom in the school. Each District employee has a PhoneMail© box for voice messaging.

Current Hardware and Software Environment

CSD#4 uses a standardized Windows XP operating system for students and staff with Office 2003. As a member of WSCA all computers purchased with District funds are Dell. CSD#4 has the following District-wide resources:

- Local Area network in each building.
- Wide Area network between all buildings
- Student Information System (SIS) in all buildings.
- Student Information System Financial Accounting System.
- Automated Library Catalog and Circulation, Alexandria.
- Automated Cafeteria System. Schoolhouse software.
- Internet access and Office 2003 available to every classroom, library, and lab.
- Inspiration software to classroom teachers and students
- Read180 at all locations except for Conn-West.

Support Services and Staff

Technical support for teachers and staff is provided by the District Information Technology Services (ITS). Users are encouraged to call the CSD4 HELP desk to report issues as well as ask for technical support with programs and applications. Issues that cannot be resolved by the HELP desk attendant are then input into a trouble tracking system (TRACK-IT) for dispatch and repair by the assigned technician. The ITS staff currently consists of an Administrator and five technicians. Certifications for the staff include A+, MCSE, MCP, Novell, and Degrees in Electronics. The IT staff also developed and maintains a District Internet/Intranet website that contains support tutorials and self help guides.

Current Status

Compiling Raw Data

DATA SOURCES

In deciding current strengths and weaknesses many types of data were compiled and reviewed by the five Technology Focus Areas. The following types of data were used:

| Data Used | TFA 1 | TFA 2 | TFA 3 | TFA 4 | TFA 5 |
|--|----------|----------|----------|----------|----------|
| District Data Sources | | | | | |
| 1. Missouri Assessment Program (MAP) Student data | X | X | | | |
| 2. Closing the Achievement Gap Data | X | X | | | |
| 3. Curriculum Guides | X | X | | | |
| 4. Computer to student ratio | X | | | X | |
| 5. Student Technology Competencies | X | | | | |
| 6. Certified Staff Technology Competencies | | X | | | |
| 7. Administrator Technology Competencies | | X | | | |
| 8. CSD#4 Acceptable Use Policy and Board Policies | X | | X | X | |
| 9. ESL Data | X | X | | | |
| 10. CSD#4 CSIP | X | X | X | X | X |
| 11. CSD#4 Technology Plan 2004-2007 | X | X | X | X | X |
| Missouri Data Sources | | | | | |
| 12. Show-Me Standards | X | X | | | |
| 13. MSIP Standards/Indicators | X | X | X | X | X |
| 14. NO Child Left Behind | X | X | | | |
| 15. MSIP Advanced Questionnaire - Staff, Students, Parents | X | X | X | X | |
| 16. Census of Technology (COT) | X | X | X | X | |
| 17. eMINTS model | X | X | X | X | |
| 18. Missouri Educational Technology Strategic Plan 2007-11 | X | X | X | X | X |
| District Survey Data Sources | | | | | |
| 19. Professional Development Strand In-service Evaluation | | X | | | |
| 20. Professional Development Needs Assessment Evaluation | | X | | | |
| 21. Summary of Winter Technology Classes | | X | X | | |
| 22. Certified Staff Technology Survey | X | X | X | X | X |
| 23. Classified Staff Technology Survey | | X | X | X | X |
| 24. Student Technology Survey (Grades 3-12) | X | X | | X | |
| District Technology Data Sources | | | | | |
| 25. SIS/SISFIN | | X | X | X | |
| 26. Alexandria Automated Library System | | | X | X | |
| 27. Computerized Lunch System | | | X | X | |
| 28. CSD#4 e-mail, phone, and Internet usage reports | | | X | X | X |
| 29. CSD#4 Website (Internet) GVNet (Intranet) | X | X | X | X | X |
| 30. Software Inventories | | X | X | X | X |
| 31. Track-It Database | | | | | X |
| 32. Track-It User Feedback | | | | | X |
| 33. Norton Anti-Virus server reports | | | | | X |

| Data Used | TFA 1 | TFA 2 | TFA 3 | TFA 4 | TFA 5 |
|--|------------------|------------------|------------------|------------------|------------------|
| 34. Software server reports | | | | | X |
| 35. Networking OS server reports | | | | | X |
| Other | | | | | |
| 36. History of Technology Strand (Professional Development) over past four years | | X | | | |
| 37. District Calendar Usage and Practices | | | X | | |
| 38. Textbook and Hardware Inventories | | | X | X | X |
| 39. Procedures and methods for transportation routes | | | X | X | |
| 40. CSD#4 Maintenance Practices | | | X | X | |
| 41. Video Programming/catalog | X | X | | X | |
| 42. Data regarding age of technology equipment | | | | X | X |
| 43. Grappling's Technology and Learning Spectrum | X | X | | | |
| 44. Career Pathways Consortium Plan | X | | | X | |
| 45. 21 st Century Skills | X | X | X | X | X |

Current Status of Technology Focus Areas

Grandview C-4 has a District Level technology advisory committee composed of parents, community members, students, school staff and district administration. The committee met throughout the previous three years to ensure the district's technology plan activities is implemented and issues addressed in a timely fashion. The Technology Committee met most recently in April of 2006 to review implementation progress and to determine the strengths and challenges and the current status of each Technology Focus Area. All schools were represented and implementation of their school activities was examined as well as District wide progress. The data provided by this committee was used as an important step in the evaluation process of the 2004-07 and while creating our 2007-10 District Technology Plan.

Current Status

Each Technology Focus Area subcommittee was responsible for compiling and analyzing the data in their technology focus area. Each TFA committee reviewed the raw data compiled and listed on page 14. Brief summaries of each TFA findings are listed below highlighting achievements and concerns over the past three years. Detailed committee reviews and conclusions are located in table formats in each of the TFA sections that follow.

TFA 1 Student Learning

Data Analysis

Achievement Data- Standardized and local test scores continue to slowly improve. The district standardized scores as represented in the MAP; AYP, APR and Content Level Standards show some improvement in all areas. Continued growth by all subgroups also reveals a significant gap between certain subgroups. Both the subgroup gaps and slow progress will need to be addressed in the 2007-10 District Technology Plan.

TFA 2 Teacher Preparation

Data Analysis

Technology Integration- MSIP questionnaire and survey data show increased integration efforts. Model lessons (with technology components) are developed by teachers at the site level and are made available online to support new core curriculum and integration of technology into the instructional process. The integration process has increased do to the use of the distribution of multimedia carts and TeamBoard technologies. Teacher and student use of technology has increased district-wide. Although technology competencies have been established for students, teachers and administrators very little progress has been made in developing and disseminating the competencies. Professional development and technology purchases have increased.

TFA 3 Administration, Management and Communications

Data Analysis

The district has a need to update the major data and report systems (Student, Business/finance, Food, and Transportation). Additionally, upon review and analysis of existing data the committee has also recommended the acquisition of a district instructional management system. Data management in the district is a priority as we begin implementing the 2007-10 District Technology Plan.

The committee also suggests an update all policies and procedures for district systems and a mechanism to inform the C-4 students, staff, parents and community of new policies and procedures. Although there has been funding for technology initiatives during the current technology the committee finds that an institutionalized line item budget be developed for plan implementation.

TFA 4 Resource Distribution and Use

Data Analysis

Analysis of data indicates that many of strategies in TFA 4 have been met or are progressing. A formal replacement cycle for technologies distributed throughout the district is needed. Additionally, there is a suggestion that the Technology Advisory Committee meet and establish a district-wide standard for hardware and software for every classroom and begin to meet the criteria of the standard as a plan priority. There is a need to institutionalize a line item budget to support Technology Plan initiatives.

TFA 5 Technology Support

Data Analysis

The response time and efficiency of technical support in the district is a strength. The district provides updates in system infrastructure that improves performance. There is a need to update policies and procedures for the network as new systems are added. The implementation and improvements to GVNet continues to be a district asse

Goals and Objectives

2004-2007

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| <p style="text-align: center;">Previous Plan (2004-07) Goals and Objectives</p> |
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TFA 1: Student Learning

Goal: Student learning and basic technology skills will increase in content and process standards through infusion of technology into all areas of curriculum at all grade levels.

- **Objective 1:** Students will meet or exceed the MSIP Student Performance MAP Standards and Annual Yearly Progress as defined by the No Child Left Behind Benchmarks.
- **Objective 2:** Students will demonstrate mastery of appropriate technology skills as defined in the CSD#4 Student Technology Competencies.

TFA 2: Teacher Preparation & Delivery of Instruction

Goal: Through an on-going professional development program that supports adult learning, teachers will deliver effective technology-rich instruction that motivates and challenges students with diverse learning styles and abilities to achieve at higher cognitive levels.

- **Objective 1:** Technology integration into the curriculum will be increased by determining the number of new technology rich lessons that are added to the curriculum yearly.
- **Objective 2:** Using present competencies, CSD#4 will develop an accountability system to gauge the progress toward proficiency for teachers and administrators.
- **Objective 3:** CSD#4 will provide teacher training on the identification, effective use, and evaluation of available software and other technology resources for additions to the curriculum.
- **Objective 4:** CSD#4 will expand the use of technology by providing tools for more effective communication, reflection, assessment, and collaboration.

TFA 3: Administration/Data Management/Communications

Goal: CSD#4 will use technology to improve communication, collect and manage data and implement administrative applications allowing all staff to maximize instructional time to focus on student achievement.

CSD#4 will:

- **Objective 1:** Expand the use of management tools and software for administrative and instructional processes.
- **Objective 2:** Improve communication with staff, parents, and patrons using District technology resources.
- **Objective 3:** Provide on-going training opportunities to improve use and productivity of management tools and software.

| |
|---|
| <p style="text-align: center;">Previous Plan (2004-07) Goals and Objectives</p> |
|---|

TFA 4: Resource Distribution and Use

Goal: CSD#4 will provide current and equitable technology resources to expand educational opportunities during and beyond the school day for students and staff.
CSD#4 will:

- **Objective 1:** Acquire, implement, and maintain technology systems to maximize District management operations.
- **Objective 2:** Continue to acquire current technologies for student and staff use that will increase student learning and management efficiency.
- **Objective 3:** Develop a plan to upgrade servers to efficiently meet increased usage.

TFA 5: Technical Support

Goal: CSD#4 will provide end users with timely professional support and technical assistance to maintain technology for student learning and every day operations.
CSD#4 will:

- **Objective 1:** Provide end users with a reliable network infrastructure and equipment through a high level of customer support and assistance.
- **Objective 2:** Protect its hardware and software while maintaining an acceptable level of service.
- **Objective 3:** Increase utilization of its intranet site as the information delivery method for all CSD#4 employees.

DATA Analysis

2004-07 Goals, Objectives and Action Plans

Status of Previous Goal/Objectives (2004-07 Plan)

TFA #1: 2004-07 Goal: Student learning and basic technology skills will increase in content and process standards through infusion of technology into all areas of curriculum at all grade levels.

Objective 1: Students will meet or exceed the MSIP Student Performance MAP Standards and Annual Yearly Progress as defined by the No Child Left Behind Benchmarks.

Current Status of Objective 1.1:

Based on our review of raw data MSIP and AYP results indicate slow progress being made but there are several areas of concern that we need to plan for in the 2007-10 plan. The integration of technology in professional development activities has increased but integration of technology into core classroom instruction designed to improve student performance needs to improve.

| Strength | Progressing | Weakness |
|--|--|---|
| All strategies of this objective have been met or exceeded expectations. Objective has been met. | Most or all strategies have been met but more work is required toward successful completion. Objective has not yet been met. | Little or no progress has been made in meeting this objective and much work needs to be made to meet expectations. Objective has not been met. √ |

Objective 2: Students will demonstrate mastery of appropriate technology skills as defined in the CSD#4 Student Technology Competencies.

Current Status of Objective 1. 2:

A Pre K-12 Technology Competencies document has been adopted by the C-4 Board of Education but development of the document and dissemination has not occurred as planned. Grade level development, dissemination/training of student technology competencies for teachers and benchmark assessments to measure student mastery of competencies has not occurred at the level anticipated. Teacher training and associated distribution of technology for teachers is improving and student technology use of equipment in some classrooms increased because there is some available equipment. Much more work needs to be done here

| Strength | Progressing | Weakness |
|--|--|---|
| All strategies of this objective have been met or exceeded expectations. Objective has been met. | Most or all strategies have been met but more work is required toward successful completion. Objective has not yet been met. | Little or no progress has been made in meeting this objective and much work needs to be made to meet expectations. Objective has not been met. √ |

TFA 1 Student Learning 2004-07 District Technology Plan

After reviewing the plan it was determined that some activities in each Technology Focus Area have not been completed. Most activities are progressing and each Technology Focus Area committee reviewed and determined the need to include associated actions in the 2007-10 District Technology Plan.

Goal 1: Student learning and basic technology skills will increase in content and process through infusion of technology into all areas of curriculum at all grade levels.

MSIP and CSIP Standards Addressed

MSIP: 6.11, 3; 6.2.2; 6.3.2,5,6; 6.4.1-4; 7.1.3; 7.3.1,3; 8.1.1; 8.2.1,4

CSIP: 1.1.1,13,14; 1.2.1; 2.1.1-3; 4.2.1;

Objective 1: Students will meet or exceed the MSIP Student Performance MAP Standards and Annual Yearly Progress as defined by the NCLB Benchmarks.

| Activity/Action Steps | Result | Progress Expectations/Measurements |
|---|---|------------------------------------|
| 1A. Continue or expand vocational programs in using technology tools that will prepare students for higher education and the job market. . (MSIP 7.3.3; CSIP 1.2.1) | New school pathways career class was established at the high school. All middle and high school programs use Kuder Assessment Program | Progressing |
| 1B. Develop and use inquiry-based learning activities across the curriculum to develop higher level cognitive skills. (MSIP 6.1.3; 6.4.2; CSIP 1.1. 13 | Some teachers (TAP) have presented technology integrated inquiry-based lessons and are accessed through GVNet. | Progressing |
| 1C. Expand the eMINTS classroom model at all levels. . (MSIP 6.1.1; 6.4.3; CSIP 1.1. 14 | eMINTS classrooms were not expanded but the district eGITS has expanded to all schools and grade levels. | Not Met |
| 1D. Survey teachers to determine student opportunity and effective use | Surveys were administered to teachers but new ones need to be created and new data needed. | Not Met |

| Activity/Action Steps | Result | Progress Expectations/Measurements |
|--|---|------------------------------------|
| of computer labs. (MSIP 6.4.1; CSIP 4.2. 1 | | |
| 1E. Develop a plan to make more effective use of computer labs for student work (MSIP 6.4.1; CSIP 4.2. 1; 1.1. 14 | Plans are needed at district sites. | Not Met |
| 1F. Expand the use for after school tutoring and student learning programs. (MSIP 6.1.1; 6.3.5; 7.1.3; CSIP 2.1. 1, 3 | Read 180 and I Can Learn labs have been set up in district schools | Progressing |
| 1G. Building School Improvement Plans will include strategies for improving student achievement through the use of technology. (MSIP 8.2.1,4 | The use of technology needs to be a strategy in school plans not just activities. | Progressing |
| 1H. Student electronic portfolios will be used throughout the district. (MSIP 6.4.2,4; CSIP 1.1.14 | Planning and implementation of electronic portfolios did not occur district-wide. | Not Met |
| 1I. Utilize the I-TV equipment at the high school to offer courses through Career Pathways Project. (MSIP 7.3.1; 8.1.1; CSIP 2.1.2 | Coursework is not offered to students via I-TV or video conferencing. | Not Met |

Goal 1: Student learning and basic technology skills will increase in content and process through infusion of technology into all areas of curriculum at all grade levels.

Objective 2: Students will demonstrate mastery of appropriate technology skills as defined in the CSD#4 Student Technology Competencies.

Data Analysis:

| Activity/Action Steps | Result | Progress Expectations/Measurements |
|--|---|------------------------------------|
| 2A. Establish a committee to develop a plan to implement District student technology competencies into classroom instruction. (MSIP 6.1.1,3; 6.3.2; CSIP 1.1.1) | Committee developed competencies but no plan to implement competencies. | Not Met |
| 2B. Students daily use of technology will increase in use of, but not limited to: application software, research, presentation, digital media. (MSIP 6.1.1,3; 6.3.2; CSIP 1.1. 13, 14) | As technologies increased in classrooms so has student use. | Progressing |
| 2C. Continue integrating technology into the content curriculum by adding specific Student Technology Competencies to the lessons. (MSIP 6.1.3; 6.2.2; CSIP 1.1. 13) | TAP professional development activities increased technology use. Curriculum revisions did not include technology integration. | Progressing |
| 2D. Continue to provide and expand access to current computers and technology tools. (MSIP 6.4.1; CSIP 4.2.1) | All district teachers have a desktop computer but the district needs to consider creating a standard technology equipment level for classroom teachers as well as a replacement cycle plan. | Progressing |
| 2E. Expand the equipping of classrooms with technology tools such as but not limited handhelds, projectors, probes, Elmos. (MSIP 6.4.1; CSIP 1.1. 14) | Teachers that voluntarily participate in training receive equipment. Some teachers participating in special projects or grants receive additional equipment. | Progressing |
| 2F. Address various learner needs through effective student use of media tools to publish and communicate ideas and information. (MSIP 6.1.1,3; 6.3.5,6; CSIP 1.1.1; 2.1.3) | Progress is noted in classrooms where teachers have participated in training activities. | Progressing |

Evaluation of Strengths and Weaknesses of the 2004-07 Technology Plan Goals

TFA 1 Student Learning

| Progress and Strengths | Weaknesses and Concerns |
|---|---|
| <ol style="list-style-type: none"> 1. Enthusiasm of staff and students, toward using technology helps all to be more inquiry based. 2. Students are more engaged 3. eGITS classrooms and professional development that goes with it. 4. Student comfort with computers. 5. Engaging programs-"I can learn Math and Read 180. | <ol style="list-style-type: none"> 1. Student technology competencies are not assessed or shared with parents. 2. All employees need to have more knowledge of what's going on with technology training. 3. Internet Safety; no mention of Internet Safety. <p>Number of computers in large classrooms is not adequate for students to work....</p> <ol style="list-style-type: none"> 4. Consider the need for tutorial programs for science & social studies. 5. Gap in learning between teachers who have technology and use it with students and those who do not. |

Status of Previous Goal/Objectives

TFA # 2: Teacher Preparation

2004-07 Goal: Through an on-going professional development program that supports adult learning, teachers will deliver effective technology-rich instruction that motivates and challenges students with diverse learning styles and abilities to achieve at higher cognitive levels

Objective 2.1: Technology integration into the curriculum will be increased by determining the number of new technology rich lessons that are added to the curriculum yearly.

Current Status of Objective 2.1:

Nearly all the activities written in the 2004-07 action plan are evaluated as progressing or met. Professional development of the Technology Strands is a strength and should continue. Technology support for each strand category needs to be addressed. The district eGITS model is successful and a strength that should continue. The district technology support for teachers integration use at schools is a strength but as additional technology and training demands occur during the next few years our new plan needs to plan ahead. Technology integrated lessons developed and submitted by participating teachers are added to a data bank of lessons aligned to the core curriculum.

| Strength | Progressing | Weakness |
|--|---|--|
| All strategies of this objective have been met or exceeded expectations. Objective has been met. | Most or all strategies have been met but more work is required toward successful completion. Objective has not yet been met. √ | Little or no progress has been made in meeting this objective and much work needs to be made to meet expectations. Objective has not been met. |

Objective 2.2: Using present competencies, CSD#4 will develop an accountability system to gauge the progress toward proficiency for teachers and administrators.

Current Status of Objective 2.2:

Although a teacher competency framework has been board approved in 2002 very little work has been done including creating an accountability tool tied to teacher competencies has been created. Since no tool was created it could not be used as a measure of progress in measuring teacher and administrator technology competencies. The number of technology classes for teachers and administrators need to be developed and implemented to help staff improve technology skills associated with their responsibilities of the board approved competencies. Building level technology audits that measure technology use, skill level and acquisition of technology should be developed and used with the 2007-10 plan. Work related to evaluating software for teachers has been met and continue to maximize quality of product and purchasing power.

| Strength | Progressing | Weakness |
|--|--|---|
| All strategies of this objective have been met or exceeded expectations. Objective has been met. | Most or all strategies have been met but more work is required toward successful completion. Objective has not yet been met. | Little or no progress has been made in meeting this objective and much work needs to be made to meet expectations. Objective has not been met. √ |

Objective 2.3: CSD#4 will provide teacher training on the identification, effective use, and evaluation of available software and other technology resources for additions to the curriculum.

Current Status of Objective 2.3:

Evaluation Rubrics have been developed for each content area as we undertake resource adoption procedures. Some content areas are more developed than others and more detailed work related to evaluating current resources being reviewed is being done. The district does have a policy in place regarding review of software purchases by central office before it is added to the curriculum.

| Strength | Progressing | Weakness |
|---|--|--|
| All strategies of this objective have been met or exceeded expectations. Objective has been met. √ | Most or all strategies have been met but more work is required toward successful completion. Objective has not yet been met. | Little or no progress has been made in meeting this objective and much work needs to be made to meet expectations. Objective has not been met. |

Objective 2.4: CSD#4 will expand the use of technology by providing tools for more effective communication, reflection, assessment, and collaboration.

Current Status of Objective 2.4:

Effective collaboration tools including discussion boards for district staff needs to improve. The district intranet does provide a tool for collaboration but not much as been done to promote and monitor use as it is infrequently used. On-line data management tools have not been developed or purchased by the district. Teachers and administrators are unable to access all essential data with a single sign-in nor navigate the district data resources easily. The 2007-10 Technology plan should address this important objective.

| Strength | Progressing | Weakness |
|--|--|---|
| All strategies of this objective have been met or exceeded expectations. Objective has been met. | Most or all strategies have been met but more work is required toward successful completion. Objective has not yet been met. | Little or no progress has been made in meeting this objective and much work needs to be made to meet expectations. Objective has not been met. √ |

TFA 2 Teacher Preparation 2004-07 District Technology Plan

Goal 1: Through an on-going professional development program that supports adult learning, teachers will deliver effective technology-rich instruction that motivates and challenges students with diverse learning styles and abilities to achieve at higher cognitive levels.

MSIP: 6.1.1, 2; 6.4.2, 3, 4; 6.7.1-6; CSIP: 1.1.1, 9-16

Objective 1: Technology integration into the curriculum will be increased by determining the number of new technology rich lessons that are added to the curriculum yearly

| Activity/Action Steps | Result | Progress Expectations/Measurements |
|--|---|------------------------------------|
| 1A. Continue to provide a technology strand in the District professional development framework. (MSIP 6.4.3; 6.7.6; CSIP 1.1.9,15) | Plan has been developed for K-12 teachers. | Met |
| 1B. Continue to provide support for all strands by having additional teachers to assist in integrating technology into strand instruction. (MSIP 6.4.3; 6.7.6; CSIP 1.1.9,11,15) | Additional teachers were not added to support strands | Not Met |
| 1C. Continue to offer Winter and Summer Academy classes in the use of technology in instruction. (MSIP 6.4.3; 6.7.6; CSIP 1.1.9) | Academy classes continue to be offered that have technology components although Winter Academy classes were not offered 2006. | Met |
| 1D Professional development will be expanded to train teachers in using the eMINTS model to integrate technology through inquiry-based instruction. (MSIP 6.4.2,4; 6.7.1; CSIP 1.1.9,13,15) | eGITS training for 30 teachers has increased the technology integration model at all schools. | Met |
| 1E. Allocate PD funds for technology instructional leaders to provide site level training as determined by building needs assessment completed in the spring (MSIP 6.4.3; 6.7.4; CSIP 1.1.10-11, 15) | Limited progress, some sites do more than others. Much more needs to be done assess teacher needs and provide training accordingly. | Progressing |
| 1F. 1F. Re-structure technology support by eliminating the Technology Cadre and developing an Instructional Technology Team (ITT) with a focus on instruction and coaching. (MSIP 6.7.6; 6.4.3; CSIP 1.1.11) | Technology Cadre has evolved to ITT members with corresponding training and funds allocated. | Met |

| | | |
|---|---|-------------|
| 1G. Develop a schedule so that technology instructional leaders can be used for coaching and support in their buildings to assist in creating new technology rich lessons . (MSIP 6.4.3; CSIP 1.1.10-11, 15 | ITT members do schedule training as evidenced through their action plans. | Progressing |
| 1H. Continue the position of Instructional Technology Coordinator. (MSIP 6.7.6; 6.4.3; CSIP 1.1.11 | Position is funded through 2006-07 school year. | Met |

Goal 1: Through an on-going professional development program that supports adult learning, teachers will deliver effective technology-rich instruction that motivates and challenges students with diverse learning styles and abilities to achieve at higher cognitive levels.
MSIP: 6.1.1, 2; 6.4.2, 3, 4; 6.7.1-6; CSIP: 1.1.1, 9-16

Objective 2: Using present competencies develop an accountability system to gauge the progress toward proficiency for teachers and administrators.

| Activity/Action Steps | Result | Progress Expectations/Measurements |
|--|---|------------------------------------|
| 2A. Develop a framework to organize the competencies according to skill level and formulate an accountability tool tied to the competencies (MSIP 6.4.2; 6.7.3,4; CSIP 1.1.15 | Framework exists but not accountability tool. | Progressing |
| 2B. Technology courses for staff and administrators will be offered in, but not limited to Summer and Winter Academy to insure mastery of competencies. (MSIP 6.4.3; 6.7.1; CSIP 1.1.15,19 | Technology classes offered for teachers but not specific training for administrators. | Progressing |
| 2C. Administrative and staff attainment of computer proficiencies will be evaluated by using the newly developed accountability tool. (MSIP 6.4.4; 6.7.4; CSIP 1.1.16 | No tool developed. | Not Met |
| 2D. Building School Improvement Plans will include strategies for professional development and using the accountability tool for the use of technology. (MSIP 6.6.6; 6.7.4 | No tool developed. | Not Met |

Goal 1: Through an on-going professional development program that supports adult learning, teachers will deliver effective technology-rich instruction that motivates and challenges students with diverse learning styles and abilities to achieve at higher cognitive levels.

MSIP: 6.1.1, 2; 6.4.2, 3, 4; 6.7.1-6; CSIP: 1.1.1, 9-16

Objective 3: Provide teacher training on the identification, effective use, and evaluation of available software and other technology resources for addition to the curriculum.

| Activity/Action Steps | Result | Progress Expectations/Measurements |
|---|--|------------------------------------|
| 3A. During the resource adoption cycle, each grade level or content area will develop a rubric to be used in evaluating the software and other available resources. (MSIP 6.4.2; CSIP 1.1.13) | A scoring rubric was created to address technology in a limited manner. More detailed evaluation of software components needs to be created. | Progressing |
| 3B. Additional software and other resources will go through a review process at the department/grade level before being added to the curriculum. (MSIP 6.4.3; CSIP 1.1.13) | District Policy has been developed and monitored through central office. | Met |

Goal 1: Through an on-going professional development program that supports adult learning, teachers will deliver effective technology-rich instruction that motivates and challenges students with diverse learning styles and abilities to achieve at higher cognitive levels.

MSIP: 6.1.1, 2; 6.4.2, 3, 4; 6.7.1-6; CSIP: 1.1.1, 9-16

Objective 4: Expand the use of technology by providing additional tools for more effective communication, reflection, assessment, and collaboration.

| Activity/Action Steps | Result | Progress Expectations/Measurements |
|---|--|------------------------------------|
| 4A. Encourage the use of discussion boards by teachers through demonstration lessons at the site level. (MSIP 6.7.2; CSIP 1.1.15) | Discussion board was created but there is infrequent use of this tool. | Not Met |
| 4B. Encourage the use of class e-mail addresses for teachers and students (MSIP 6.7.2; CSIP 1.1.16) | E-mail accounts have not been set up for K-12. | Not Met |

| | | |
|--|--|---------|
| 4C. Continue training on the resources found on GVNet for teacher use in lesson planning. (MSIP 6.4.3; 6.7.6; CSIP 1.1.15,16) | Training on GVNet resources has taken place but needs to expand. | Met |
| 4D. Create an on-line evaluation tool that can tally results to be used in collecting teacher and student data. (MSIP 6.7.2; CSIP 1.1.16) | Tool was not created. | Not Met |
| 4E. Design and implement a District model that provides training and support for the use of electronic portfolios for both staff and students. (MSIP 6.1.1; 6.4.3; 6.7.2; CSIP 1.1.12) | No evidence of this activity could be found. | Not Met |

Evaluation of Strengths and Weaknesses of the 2004-07 Technology Plan Goals

TFA 2 Teacher Preparation

| Progress and Strengths | Weaknesses and Concerns |
|---|--|
| <ol style="list-style-type: none"> 1. Beginning basic introduction to computers is available 2. Winter and Summer Academy Classes 3. On-Line curriculum provides a wide range of teacher resources 4. ITT position and training 5. SIS- provides district wide system management information 6. Curriculum is digitized and available via GVNet 7. Strands offered through Professional Development 8. United Streaming District license provides valuable teacher resources. 9. eGITS, TAP and Professional Development Strands 10. Deployment of hardware throughout the district. 11. Internet and GVNet available to all staff in district | <ol style="list-style-type: none"> 1. There is a need for more professional development to learn technology basic skills. 2. Some teachers require more advanced PD. 3. District needs to develop a plan to hold teachers and principals accountable to implement technology standards. 4. Many students and teachers are unable utilize U:drive with electronic portfolios 6. Not having parent component of SIS 7. No capability to enter grades at home 8. Electronic portfolios not implemented yet 9. Accountability of staff to learn, expand use of technology 10. Tracking of Professional Development 11. All data systems are not connected and require multiple logins to access needed data. |

TFA # 3: 2004-07 Goal: Administration, Data Management, Communications

Goal 3: CSD#4 will use technology to improve communication, collect and manage data and implement administrative applications allowing all staff to maximize instructional time to focus on student achievement.

Objective 3.1: Expand the use of management tools and software for administrative and instructional processes

Current Status of Objective 3.1

The implementation of data management systems has shown limited progress in the district. All teachers have SIS access on their desktop computer although a greater effort in teacher utilizing the system needs to be realized to reach the system’s full potential. Automated maintenance work order system is not yet available throughout the district just central office. The district has yet to purchase and implement a transportation software system to improve efficiency of routing. Concern over the student information system (SIS) and the current version’s ability to meet district needs has been expressed. The 2007-10 District Technology Plan needs to address the district SIS applications.

| Strength | Progressing | Weakness |
|--|--|---|
| All strategies of this objective have been met or exceeded expectations. Objective has been met. | Most or all strategies have been met but more work is required toward successful completion. Objective has not yet been met. | Little or no progress has been made in meeting this objective and much work needs to be made to meet expectations. Objective has not been met. √ |

Objective 3.2: Improve communication with staff, parents, and patrons using District technology resources.

Current Status of Objective 3.2

Progress is being made in meeting the action steps of this objective. A Master Schedule is implemented and effective. More work needs to be done to train users to utilize the capabilities of Outlook Calendar. The Teacher Training component will address this area in an action step in the 2007-10 Technology Plan. No progress has been made in implementing a parent module in the SIS and needs to be addressed in our new plan.

| Strength | Progressing | Weakness |
|--|---|--|
| All strategies of this objective have been met or exceeded expectations. Objective has been met. | Most or all strategies have been met but more work is required toward successful completion. Objective has not yet been met. √ | Little or no progress has been made in meeting this objective and much work needs to be made to meet expectations. Objective has not been met. |

Objective 3.3: Provide on-going training opportunities to improve use and productivity of management tools and software.

Current Status of Objective 3.3

The district continues to offer technology related training classes associated with management tools and system software. Some actions, including a system to track textbooks, district-wide maintenance and transportation system software has to be addressed.

| Strength | Progressing | Weakness |
|--|---|--|
| All strategies of this objective have been met or exceeded expectations. Objective has been met. | Most or all strategies have been met but more work is required toward successful completion. Objective has not yet been met. √ | Little or no progress has been made in meeting this objective and much work needs to be made to meet expectations. Objective has not been met. |

TFA 3: Administration, Data Management, Communications

Goal 3: CSD#4 will use technology to improve communication, collect and manage data and implement administrative applications allowing all staff to maximize instructional time to focus on student achievement.

Objective 1.1: Expand the use of management tools and software for administrative and instructional processes
(District Goal 1, CSIP Objective 1, 2, 3, 6, MSIP Standard 6.4)

| Action Plan | Result | Goal/Objective Status |
|---|--|------------------------------|
| 1A. All teachers will have access to SIS on their desktop, to review student demographic information. | All teachers do have access to SIS on their desktop. | Met |
| 1.B All buildings will maximize and use SIS for tracking discipline | Some staff are not using the application. Issue is being addressed. | Progressing |
| 1C. Purchase Palm Pilot download utility from SIS for all buildings. | Not completed at all schools | Progressing |
| 1D. Implement a computerized textbook inventory system. | Activity was not addressed. | Not Met |
| 1E. Investigate, purchase and implement a transportation software program to plan and track routes. | Activity was not addressed. | Not Met |
| 1F. Implement an automated maintenance work order system. | Implemented in ITS Dept. but not Maitenance. | Progressing |
| 1G. Update SIS to the sequel version | Not completed. System application has implementation issues and district is reviewing options. | Not Met |

**Evaluation of Previous Plan's 2004-2007 Technology Plan Goals
TFA 3 Administration, Data Management, Communications**

Goal 3: CSD#4 will use technology to improve communication, collect and manage data and implement administrative applications allowing all staff to maximize instructional time to focus on student achievement.

Objective 1.2: Improve communication with staff, parents, and patrons using District technology resources.
(District Goal 1, CSIP Objective 1, 2, 3, 6, MSIP Standard 6.4)

| Action Plan | Result | Goal/Objective Status |
|---|---|-----------------------|
| 2A. Develop procedures and guidelines that will enable Administrators, coordinators, chairs etc. to utilize Microsoft Outlook calendar for communication of scheduled events. | Procedures developed but training and usage needs to be improved | Progressing |
| 2B. Investigate and purchase a Master Calendar software for scheduling district meetings and meeting rooms. | Master Calendar application purchased and implemented. | Met |
| 2C. Investigate and make timeline recommendations for the implementation of SIS parent modules. | Did not occur as planned, review of needs and application options needs to be examined. | Not Met |

**Evaluation of Previous Plan's 2004-2007 Technology Plan Goals
TFA 3 Administration, Data Management, Communications**

Goal 3: CSD#4 will use technology to improve communication, collect and manage data and implement administrative applications allowing all staff to maximize instructional time to focus on student achievement.

Objective 1.3: Provide on-going training opportunities to improve use and productivity of management tools and software.

| Action Plan | Result | Goal/Objective Status |
|--|---|-----------------------|
| 3A. Continue offering the winter technology and summer academy classes | Summer classes offered but interest in participating with winter classes has diminished and was not offered during the 2005-06 school year. | Met |
| 3B. Provide training on new and existing software programs will be provided in the following areas for appropriate staff: *Outlook Calendar *SIS *Textbook inventory *Transportation *Maintenance *PDA *Master Calendar | Textbook inventory, maintenance and transportation software applications were not implemented | Progressing |
| 3C Train new certified and classified staff on network applications as appropriate for their job functions. | Improvement needed. | Progressing |

Evaluation of Strengths and Weaknesses of the 2004-07 Technology Plan Goals

TFA 3 Administration, Data Management, Communications

| Progress and Strengths | Weaknesses and Concerns |
|--|--|
| <ol style="list-style-type: none">1. GVnet2. Using SIS for gradebook and tracking discipline3. SIS at elementary a great asset | <ol style="list-style-type: none">1. Inventory system2. Tracking of PD3. No parent component of SIS available4. Schools webpages up and running5. Purchase and implement master calendar software throughout the district. |

TFA # 4: 2004-07 Goal: Resource Distribution

Goal 4: CSD#4 will provide current and equitable technology resources to expand educational opportunities for students and staff during and beyond the school day.

Objective 4.1: Acquire, implement, and maintain technology systems to maximize District management operations.

Current Status of Objective 4.1

After reviewing data, district management operations have been improved upon by providing professional development to staff and providing tools applicable for individual technology proficiencies. Management systems have been continually upgraded and utilized to increase efficiency and productivity. Action steps which still need to be addressed are setting requirements for technology management systems and formally documenting the location of district assets.

| Strength | Progressing | Weakness |
|--|---|--|
| All strategies of this objective have been met or exceeded expectations. Objective has been met. | Most or all strategies have been met but more work is required toward successful completion. Objective has not yet been met. √ | Little or no progress has been made in meeting this objective and much work needs to be made to meet expectations. Objective has not been met. |

Objective 4.2: Continue to acquire current technologies for student and staff use to increase student learning and staff management efficiency.

Current Status of Objective 4.2

Based upon the 2004-07 Technology Plan, CSD4 has continued to provide current technology for student and staff use through evaluating, providing, and updating technologies. Technology management and updating checks and balances need to be put in place to ensure the equitability and appropriate location of our technology resources. A priority needs to be placed on institutionalizing and implementing a specific technology budget to ensure that monies are appropriated according

| Strength | Progressing | Weakness |
|--|---|--|
| All strategies of this objective have been met or exceeded expectations. Objective has been met. | Most or all strategies have been met but more work is required toward successful completion. Objective has not yet been met. √ | Little or no progress has been made in meeting this objective and much work needs to be made to meet expectations. Objective has not been met. |

Objective 4.3: Develop a plan to upgrade servers to efficiently meet increased usage.

Current Status of Objective 4.3

As new technologies have become available servers have been upgraded or replaced to meet district needs. However, a formal plan needs to be developed and implemented to ensure the most cost effective avenues of funding are researched to the fullest.

| Strength | Progressing | Weakness |
|---|--|--|
| All strategies of this objective have been met or exceeded expectations. Objective has been met. ✓ | Most or all strategies have been met but more work is required toward successful completion. Objective has not yet been met. | Little or no progress has been made in meeting this objective and much work needs to be made to meet expectations. Objective has not been met. |

**Evaluation of Previous Plan's 2004-2007 Technology Plan Goals
TFA 4 Resource Distribution**

Goal 4: CSD#4 will provide current and equitable technology resources to expand educational opportunities for students and staff during and beyond the school day.

Objective 4.1: Acquire, implement, and maintain technology systems to maximize management operations.

| Action Plan | Result | Goal/Objective Status |
|--|--|-----------------------|
| 1A. Research, set requirements, and make recommendations for asset management and inventory systems. | Not addressed | Not Met |
| 1B. Analyze staff procedures for delivery services and make recommendations to improve efficiency through use of technology. | Informally conducted | Progressing |
| 1C. Maintain and upgrade as needed the library, cafeteria, SIS/SISFIN systems | Library and SISFIN upgraded not others | Progressing |
| 1D. Monitor and document rotation of equipment based on age, use, and need. | Informally completed by ITS Dept. | Progressing |
| 1E. Continue contract with MoreNet for Internet service. | Contract renewed annually. | Met |

**Evaluation of Previous Plan's 2004-2007 Technology Plan Goals
TFA 4 Resource Distribution**

Goal 4: CSD#4 will provide current and equitable technology resources to expand educational opportunities for students and staff during and beyond the school day.

Objective 4.2: Continue to acquire current technologies for student and staff use to increase student learning and staff management efficiency.

| Action Plan | Result | Goal/Objective Status |
|--|--|-----------------------|
| 2A. Develop and implement a prioritized technology budget. | Operating funds are available but detailed budget not completed. | Not Met |
| 2B. Calculate the total cost of ownership (TCO) for a learning environment and management environment. | TCO document not completed. | Not Met |
| 2C. Continue to add resources on GVNet that will support District operations. | Updated regularly. | Progressing |
| 2D. Evaluate existing hardware and/or software to ensure it meets the needs of students and staff. | Some but not all schools evaluate hardware and software needs. | Progressing |
| 2E. Study the perceived instructional and management needs to establish a computer replacement plan. | Not addressed | Not Met |
| 2F. Replace and upgrade computers, printers, software, and other technology tools as needed. | Not completed in all buildings. | Progressing |
| 2G. Re-locate existing technologies to better serve the needs of students and staff. | Some technologies are relocated | Progressing |
| 2H. Expand the wireless environment for better access in instructional areas. | Wireless access is nearly completed at all sites. | Progressing |
| 2I. Establish a standard classroom configuration (eMINTS model) to utilize computer and projection equipment as a teaching tool. | eGITS training addresses some classrooms but not all. | Not met. |

**Evaluation of Previous Plan's 2004-2007 Technology Plan Goals
TFA 4 Resource Distribution**

Goal 4: CSD#4 will provide current and equitable technology resources to expand educational opportunities for students and staff during and beyond the school day.

Objective 4.2: Continue to acquire current technologies for student and staff use to increase student learning and staff management efficiency.

| | | |
|--|--|---------|
| 2J. Study, improve and standardize availability of equipment for use in extended day learning and community opportunities. | Not addressed | Not met |
| 2K Investigate possibilities for video resources. | United Streaming district license purchased | Met |
| 2L. Develop a plan to implement distance learning at the high school. | Equipment was purchased but distance learning project not implemented. | Not Met |

**Evaluation of Previous Plan's 2004-2007 Technology Plan Goals
TFA 4 Resource Distribution**

Goal 4: CSD#4 will provide current and equitable technology resources to expand educational opportunities for students and staff during and beyond the school day.

Objective 4.3: Develop a plan to upgrade servers to efficiently meet increased usage.

| Action Plan | Result | Goal/Objective Status |
|---|--|-----------------------|
| 4.3A. Implement migration to Windows 2000 server. | Currently using 2003 server | Met |
| 4.3B. Evaluate current hardware and software for compatibility with new server. | Evaluation completed hardware and software are compatible. | Met |
| 4.3C. Coordinate changes in server with replacement of equipment and software | Changes made as need requires. | Met |
| 4.3D. Implement upgrading of networking hubs, switches, and routers | Upgrading completed?? | Progressing |
| 4.3E Identify efficient and cost-effective replacement equipment and sources of funding for implementation. | Informally identified but sources of funding not identified. | Progressing |

Evaluation of Strengths and Weaknesses of the 2004-07 Technology Plan Goals

TFA 4 Resource Distribution

| Progress and Strengths | Weaknesses and Concerns |
|---|---|
| <ol style="list-style-type: none">1. Continue with MoreNet training2. Bond and levy funding dedicated for technology-great strength3. Computer to student ratio improving but improvement is needed.4. Added a staff person for SIS. | <ol style="list-style-type: none">1. Availability of software and hardware is not equitable among all schools.2. Building technology budgets are not equitable nor sufficient to meet school needs.3. District does not have established student/computer ratio.4. Student instruction should drive technology implementation decisions.5. Technology curriculum is not developed to meet K-12 student needs. |

TFA # 5: 2004-07 Technical Support

Goal 5: CSD#4 will provide end users with timely professional support and technical assistance to maintain technology for student learning and everyday operations.

Objective 5.1: Provide end users with a reliable network infrastructure and equipment through a high level of customer support and assistance.

Current Status of Objective 5.1:

The Track-It system has been enhanced by adding an end user interface on GVNet to allow users to query their status of their work orders. A Fluke Network monitoring device was purchased and has already been used to isolate and correct several network issues. Strategies still need to be developed to support new operating systems, applications, and services. The On-line survey software is currently being evaluated with implementation in January of 2007.

| Strength | Progressing | Weakness |
|--|---|--|
| All strategies of this objective have been met or exceeded expectations. Objective has been met. | Most or all strategies have been met but more work is required toward successful completion. Objective has not yet been met. √ | Little or no progress has been made in meeting this objective and much work needs to be made to meet expectations. Objective has not been met. |

Objective 5.2: Protect its hardware and software while maintaining an acceptable level of service.

Current Status of Objective 5.2:

All items have been met with the exception of the new firewall. Funds have been allocated for purchase and installation of the new firewall this school year.

| Strength | Progressing | Weakness |
|---|--|--|
| All strategies of this objective have been met or exceeded expectations. Objective has been met. √ | Most or all strategies have been met but more work is required toward successful completion. Objective has not yet been met. | Little or no progress has been made in meeting this objective and much work needs to be made to meet expectations. Objective has not been met. |

Objective 5.3: Increase utilization of its Intranet site as the information delivery method for all CSD#4 employees.

Current Status of Objective 5.3:

Many new applications and features have been added to GVNet since its debut in 2002. The addition of the online tutorials should increase the effectiveness of District end users and reduce the number of calls to the help desk. GVNet was upgraded to a new and improved version over the winter break of 2006=2007. In this new release features were added to allow easy access to district resources for teachers and staff. New applications were added to assist the helpdesk to more efficiently handle problem during the initial call to the helpdesk.

| Strength | Progressing | Weakness |
|---|--|--|
| All strategies of this objective have been met or exceeded expectations. Objective has been met. √ | Most or all strategies have been met but more work is required toward successful completion. Objective has not yet been met. | Little or no progress has been made in meeting this objective and much work needs to be made to meet expectations. Objective has not been met. |

**Evaluation of Previous Plan's 2004-2007 Technology Plan Goals
TFA 5 Technical Support**

Goal 5: CSD#4 will provide end users with timely professional support and technical assistance to maintain technology for student learning and everyday operations.

Objective 5.1: Provide end users with a reliable network infrastructure and equipment through a high level of customer support and assistance.

Evaluation of Previous Plan's 2004-2007 Technology Plan Goals

| Action Plan | Result | Goal/Objective Status |
|---|--|------------------------------|
| 1A. Upgrade Track-It system to include additional features to help track technical issues and trends. | Trackit not upgraded, but Trackit features added to GVNet using cold fusion. | Not met/progressing |
| 1B. Develop policies and procedures for ITS department to provide better customer support, feedback, and communication with end users. | Communication and feedback delivered via GVNet and email to all C-4 users | Met/progressing |
| 1C. Purchase network software to monitor and optimize District LAN and WAN traffic and activities. | Purchased Fluke Network Sniffer 2006 | Met |
| 1D. Provide new or refresher training for all members of the ITS staff to keep up with changing technologies and trends. | Training as time allows. Focus has been R180 and SIS K-12 | Met/progressing |
| 1E. Develop strategies for deployment of new operating systems for servers and workstations to provide a high level of customer satisfaction with new products and technologies | Strategies deployed as needed | Met |
| 1F. Develop standards to measure effectiveness of customer support provided by ITS department. | Currently evaluating on-line survey options | Progressing |

TFA 5 Technical Support

Goal 5: CSD#4 will provide end users with timely professional support and technical assistance to maintain technology for student learning and everyday operations.

Objective 5.2: Protect its hardware and software while maintaining an acceptable level of service.

| Action Plan | Result | Goal/Objective Status |
|--|-----------------------------------|-----------------------|
| 2A. Upgrade current e-mail server from Exchange 5.5 to Exchange 2000 platform. | Completed 07/2004 | Met |
| 2B. Upgrade current anti-spam software to decrease amount of spam received by users | Completed 07/2004 | Met |
| 2C. Upgrade anti-virus software to Enterprise version. | Completed 07/2004 | Met |
| 2D. Replace existing PIX Firewall with new firewall incorporating the most current protection available. | In budget for 2006-07 school year | Progressing |
| 2E. Upgrade network and voice connectivity to Transportation Department. | Completed 10/2006 | Met |

**Evaluation of Previous Plan's 2004-2007 Technology Plan Goals
TFA 5 Technical Support**

Goal 5: CSD#4 will provide end users with timely professional support and technical assistance to maintain technology for student learning and everyday operations.

Objective 5.3: Increase utilization of its Intranet site as the information delivery method for all CSD#4 employees.

| Action Plan | Result | Goal/Objective Status |
|--|--|-----------------------|
| 3A. Enhance Intranet site with applications and resources for teachers and staff. | Website upgraded in 2006. Ongoing process | Met/progressing |
| 3B. Enhance CSD#4 department sites on GVNet. | GVNet to be upgraded January 2007 | Met/progressing |
| 3C. Place all CSD#4 forms and documents to GVNet site. | We now have over 150 forms available on GVNet | Progressing |
| 3D Enhance ITS homepage on GVNet to assist with delivery of support and services provided by the ITS department. | Upgraded in 2006 further upgrades in January 2007 release. | Met |

Evaluation of Strengths and Weaknesses of the 2004-07 Technology Plan Goals

TFA 5 Technical Support

| Progress and Strengths | Weaknesses and Concerns |
|--|--|
| <ol style="list-style-type: none">1. Good filter system2. ITS team is on cutting edge of technology and programs3. Maximize resources for effective implementation4. Effective use of staffing has maximized overall strength of ITS department | <ol style="list-style-type: none">1. At HS computers with out diskette drives; no CD writable; only accessible at school2. Students should have access to flash drives3. Slow, slow, slow (could be need to clean up stuff-profiles, defrag, etc.) |

2007-10 District Technology Plan

Goals and Objectives

District Technology Plan 2007-10

Goals and Objectives

TFA 1 Student Learning

Goal 1: Students will engage in rigorous instruction driven by technology enriched curricula to realize high levels of academic achievement and performance that fosters life-long learning.

Objective 1.1 Students will meet or exceed the MSIP Student Performance MAP Standards and Annual Yearly Progress as defined by the NCLB benchmarks.

Objective 1.2 Students will demonstrate a mastery of appropriate technology skills as defined by the CSD4 Student Technology Competencies.

Objective 1.3 Effective instructional strategies will be implemented to address student achievement and 21st Century Skills.

TFA 2: Teacher Preparation

Goal 2. Through an on-going professional development program that supports adult learning, teachers will deliver effective technology-rich instruction that motivates and challenges students with diverse learning styles and abilities to achieve at higher cognitive levels.

Objective 2.1 All district teachers will demonstrate technology proficiency as measured by the NETS*T and CSD4 Board approved teacher competencies.

Objective 2.2 CSD4 will implement effective professional development strategies and support to address educator preparation and enhanced learning.

TFA 3:Administration/Data Management/Communication

Goal 3: CSD#4 will implement effective and efficient administration, data management, and communication processes through the use of technology and further support teaching and learning.

Objective 3.1: CSD#4 will have appropriate and effective administrative, data management and communication policies and procedures.

Objective 3.2: Provide and support robust administrative systems.

Objective 3.3: Provide and support appropriate data management tools.

Objective 3.4: Provide and support effective communication tools.

TFA 4: Resource Distribution

Goal 4: CSD4 will provide current technology resources to promote a high level of professional and academic performance by students and staff.

Objective 4.1: The district will develop, implement and maintain essential hardware, software and network connectivity to maximize current district management operations.

Objective 4.2: Continue to acquire new technologies and maintain upgrades for equipment and software applications to ensure equitability among all buildings.

Objective 4.3: Develop and implement a plan that creates a budget to maintain standards the district infrastructure that supports addition/change of technologies to support instruction and district management systems.

Objective 4.4: Establish and implement a specific technology budget to ensure funding and appropriate funding accordingly to meet the needs of the district technology plan.

TFA 5: Technical Support

Goal 5: CSD#4 will provide end users with timely professional support and technical assistance to maintain technology for student learning and everyday operations.

Objective 5.1 Provide users with a reliable network infrastructure and equipment through a high level of customer support and assistance.

Objective 5.2 Protect hardware and software while maintaining an acceptable level of service.

Objective 5.3 Increase utilization of GVnet (intranet site) as the information delivery method for all CSD#4 employees.

2007-10 District Technology Plan

Action Plan Tables

Action Plan Table
2007-10 District Technology Plan

| TFA 1 Student Learning – Goal, Objectives and Action Plan | | | | | |
|--|--|--------------------|-----------------------|---------------------------------|---------------------------------|
| <p>Goal: Students will engage in rigorous instruction driven by technology enriched curricula to realize high levels of academic achievement and performance that fosters life-long learning.</p> <p>Objective 1: Students will meet or exceed the MSIP Student Performance MAP Standards and Annual Yearly Progress as defined by the NCLB benchmarks. MSIP Alignment: 7.6.1, 7.6.2, 9.1.1, 9.1.2, 9.1.3, 9.2, 9.4.1, 9.4.2, 9.4.3, 9.4.4, 9.5, 9.6 CSIP Alignment: Goal 1 Strategy 2.2-3, 3.10, 6.3, 6.4, 13.2-,6, 14.2, 14.6, 15.5: Goal 4 Strategy 3.2, Missouri Education Technology Strategic Plan: Goal Objective 1 Corrective Strategies: Re-evaluation of integration activities, PD activities and technology resources will occur if achievement does not improve. School Improvement Plans and program plans will be evaluated for effectiveness.</p> | | | | | |
| Action Step/Activity (Expected Progress and how measured) | Person(s) Responsible | Direct Cost | Funding Source | Benchmark Review Date(s) | Timeline Begin-End Dates |
| 1.1.1 Building SIP plans will include a technology goal for improving student achievement. Progress Expectations/Measurements: Technology usage increases in each classroom as well as an increase in student achievement. | Principal Assist. Superintendent for CI&A | None | Operating | On-going | Sept. 2007-June 2008 |
| 1.1.2 Expand the use of after school tutoring and student learning programs. Progress Expectations/Measurements: Students will meet and exceed Grade Level Expectations-MAP scores will show an increase. An increase of students will reach | Principal | None | Operating | Oct. 2007 | Sept. 2007-June 2008 |

TFA 1 Student Learning – Goal, Objectives and Action Plan

Goal: Students will engage in rigorous instruction driven by technology enriched curricula to realize high levels of academic achievement and performance that fosters life-long learning.

Objective 1: Students will meet or exceed the MSIP Student Performance MAP Standards and Annual Yearly Progress as defined by the NCLB benchmarks.

MSIP Alignment: 7.6.1, 7.6.2, 9.1.1, 9.1.2, 9.1.3, 9.2, 9.4.1, 9.4.2, 9.4.3, 9.4.4, 9.5, 9.6

CSIP Alignment: Goal 1 Strategy 2.2-3, 3.10, 6.3, 6.4, 13.2-6, 14.2, 14.6, 15.5:
Goal 4 Strategy 3.2,

Missouri Education Technology Strategic Plan: Goal Objective 1

Corrective Strategies: Re-evaluation of integration activities, PD activities and technology resources will occur if achievement does not improve. School Improvement Plans and program plans will be evaluated for effectiveness.

| Action Step/Activity (Expected Progress and how measured) | Person(s) Responsible | Direct Cost | Funding Source | Benchmark Review Date(s) | Timeline Begin-End Dates |
|--|--|-------------|----------------|-------------------------------------|--------------------------|
| achievement levels 1&2 and a decreased number of students be determined to be in Levels 3&4. | | | | | |
| 1.1.3 Provide electronic resources to enable students to use technology to reach educational pathway goals (I can Learn Math/Algebra, NovaNET, blackboard, video conferencing equipment (i.e.;Tandberg Educator Package). Progress Expectations/Measurements: Student technology skills will meet and exceed district technology standards and technology use will increase. | Assist. Superintendent for CI& Inst. Tech Director | \$60,000 | Operating | June 2007 June 2008 June 2009 | June 2007 Ongoing |
| 1.1.4 Identify and offer special programs for high school credit recovery, credit acquisition and dual credit options through distance learning. Progress Expectations/Measurements: Graduation rate will increase and MAP scores will increase. | Principal Inst. Tech Director | None | Operating | June 2007 Ongoing | June 2007-Ongoing |

TFA 1 Student Learning – Goal, Objectives and Action Plan

Goal 1: Students will engage in rigorous instruction driven by technology enriched curricula to realize high levels of academic achievement and performance that fosters life-long learning.

Objective 2: Students will demonstrate a mastery of appropriate technology skills as defined by the CSD4 Student Technology Competencies.

MSIP Alignment: 6.1.3, 6.4.1, 6.4.4, 6.7.4, 7.5.3

CSIP Alignment: Goal 1 Strategy 3.1, 3.10, 4.8, 5.1, 6.3, 6.6, 13.2, 13.3, 13.4, 13.5, 13.6, 14.1, 14.2, 14.4, 14.5, 14.6, 15.1, 15.2, 15.5, 15.6, 15.7, 16.5

Missouri Education Technology Strategic Plan: Goal 1 Objective 1- 2

Corrective Strategies: Re-evaluation of technology integration activities and curriculum implementation strategies will occur and modified if mastery not met on assessment. The planning and instructional implementation of lessons of Inst. Resource Teachers will also be examined.

| Action Step/Activity (Expected Progress and how measured) | Person(s) Responsible | Direct Cost | Funding Source | Benchmark Review Date(s) | Timeline Begin-End Dates |
|--|--|--------------------|-----------------------|--|----------------------------------|
| <p>1.2.1 The National Educational Technology Standards for Students (NETS*S) achievement rubric will be used to guide and monitor student technology literacy.</p> <p>Progress Expectations/Measurements: Student technology literacy will increase as they meet or exceed NETS*S</p> | Inst. Tech Director | None | Operating | December 07 | September 07-June 08 |
| <p>1.2.2 Develop and implement cumulative student electronic portfolios throughout the district.</p> <p>Progress Expectations/Measurements: Tracking of student progress annually in grades K-12. Achievement scores will increase and parental involvement will increase.</p> | Inst. Tech Director Teachers Instructional Coaches | None | Operating | December 07 | September 07-June 08 |
| <p>1.2.3 Develop and administer annual technology competency assessments at grade 5 and 8 that measure all six technology standards.</p> <p>Progress Expectations/Measurements: Teacher usage of integrated technology instruction will increase. Technology competencies of students will be assessed and strengths and weaknesses identified.</p> | Inst. Tech Director Instructional Coaches | None | Operating | January 07 January 08 January 09 | September 07-June 08 On-going |

TFA 1 Student Learning – Goal, Objectives and Action Plan

Goal 1: Students will engage in rigorous instruction driven by technology enriched curricula to realize high levels of academic achievement and performance that fosters life-long learning.

Objective 2: Students will demonstrate a mastery of appropriate technology skills as defined by the CSD4 Student Technology Competencies.

MSIP Alignment: 6.1.3, 6.4.1, 6.4.4, 6.7.4, 7.5.3

CSIP Alignment: Goal 1 Strategy 3.1, 3.10, 4.8, 5.1, 6.3, 6.6, 13.2, 13.3, 13.4, 13.5, 13.6, 14.1, 14.2, 14.4, 14.5, 14.6, 15.1, 15.2, 15.5, 15.6, 15.7, 16.5

Missouri Education Technology Strategic Plan: Goal 1 Objective 1- 2

Corrective Strategies: Re-evaluation of technology integration activities and curriculum implementation strategies will occur and modified if mastery not met on assessment. The planning and instructional implementation of lessons of Inst. Resource Teachers will also be examined.

| Action Step/Activity (Expected Progress and how measured) | Person(s) Responsible | Direct Cost | Funding Source | Benchmark Review Date(s) | Timeline Begin-End Dates |
|---|--|--|------------------|--|---------------------------------|
| <p>1.2.4 Determine classroom standards for technology equipment and instructional resources and expand number of district classrooms that meet standards. (Example: Multimedia Cart, LCD Projector, PC, TeamBoard, 4-5 student computers-Supplemental digital resources.</p> <p>Progress Expectations/Measurements: Technology inventory will be completed annually. Student technology skills will increase. Student/Teacher surveys administered annually</p> | <p>Assist. Superintendent for CI&A Technology Advisory Committee Inst. Tech Director Instructional Coaches</p> | <p>\$ 6, 000 per classroom @ 200 \$1,200,000 for Hardware \$149,000 for Instructional Software and Resources</p> | <p>Operating</p> | <p>December 07 June 08 December 08 June 09</p> | <p>September 2007-June 2009</p> |
| <p>1.2.5 Hire eight (8) Instructional Coaches to assist in the integration of technology in the classroom and support each of the four core curricular areas to assist in PD functions and best practices associated with curriculum implementation.</p> <p>Progress Expectations/Measurements: Students will have regularly scheduled technology curriculum instruction. Teachers will have technology integration support staff assigned to their building and Inst Resource Teachers will assist in professional development activities. : (1) Increase</p> | <p>Assist. Superintendent for CI&A Principals</p> | <p>\$675,000</p> | <p>Operating</p> | <p>December 07</p> | <p>June 2007</p> |

TFA 1 Student Learning – Goal, Objectives and Action Plan

Goal 1: Students will engage in rigorous instruction driven by technology enriched curricula to realize high levels of academic achievement and performance that fosters life-long learning.

Objective 2: Students will demonstrate a mastery of appropriate technology skills as defined by the CSD4 Student Technology Competencies.

MSIP Alignment: 6.1.3, 6.4.1, 6.4.4, 6.7.4, 7.5.3

CSIP Alignment: Goal 1 Strategy 3.1, 3.10, 4.8, 5.1, 6.3, 6.6, 13.2, 13.3, 13.4, 13.5, 13.6, 14.1, 14.2, 14.4, 14.5, 14.6, 15.1, 15.2, 15.5, 15.6, 15.7, 16.5

Missouri Education Technology Strategic Plan: Goal 1 Objective 1- 2

Corrective Strategies: Re-evaluation of technology integration activities and curriculum implementation strategies will occur and modified if mastery not met on assessment. The planning and instructional implementation of lessons of Inst. Resource Teachers will also be examined.

| Action Step/Activity (Expected Progress and how measured) | Person(s) Responsible | Direct Cost | Funding Source | Benchmark Review Date(s) | Timeline Begin-End Dates |
|--|-----------------------|-------------|----------------|--------------------------|--------------------------|
| in technology integration support. (2) Instructional strategies will reflect an increase in application of best practices in all classrooms as evidenced by classroom walkthrough observations. | | | | | |

TFA 1 Student Learning – Goal, Objectives and Action Plan

Goal: Students will engage in rigorous instruction driven by technology enriched curricula to realize high levels of academic achievement and performance that fosters life-long learning.

Objective 3: Effective instructional strategies will be implemented to address student achievement and 21st Century Skills.

MSIP Alignment: 6.1.3, 6.3.1, 6.3.3

CSIP Alignment: Goal 1 Strategy: 3.1, 3.10, 4.8, 6.3, 13.2, 13.3, 13.4, 13.5, 13.6, 14.1, 14.2, 14.6, 15.1, 15.9, 16.1

Missouri Education Technology Strategic Plan: Goal 1 Objective 3

Correctional Strategies: Building lab usage and technology integration plans will be re-evaluated. Distance and digital resources used for students will be examined to ensure alignment of classroom activities and necessary supervision is occurring.

| Action Step/Activity (Expected Progress and how measured) | Person(s) Responsible | Direct Cost | Funding Source | Benchmark Review Date(s) | Timeline Begin-End Dates |
|---|--|----------------|------------------|--------------------------|----------------------------------|
| <p>1.3.1 Develop and use inquiry-based learning activities powered by technology across the curriculum in order to develop higher level cognitive skills.</p> <p>Progress Expectations/Measurements: Higher level cognitive skills will improve. Student achievement will increase. Technology usage will increase. Teacher Surveys.</p> | <p>Inst. Tech Director ITT Members</p> | <p>None</p> | <p>Operating</p> | <p>December 07</p> | <p>August 07 On-going</p> |
| <p>1.3.2 Develop a plan and implement more effective use of computer labs for student work.</p> <p>Progress Expectations/Measurements: Student achievement will increase. Student technology skills level will meet or exceed technology standards. Technology use will increase</p> | <p>Principals Inst. Technology Director ITT Members Tech Advisory Committee</p> | <p>None</p> | <p>Operating</p> | <p>December 07</p> | <p>August 07 December 07</p> |
| <p>1.3.3 Develop and expand learning opportunities through technologies such as virtual education, distance learning credit acquisition, assistive technology and digital instructional resources.</p> <p>Progress Expectations/Measurements: Student achievement will increase. Student graduation level will increase. Technology skills will improve.</p> | <p>Assist. Superintendent for CI& Inst. Tech Director ITT Members Principals</p> | <p>\$8,000</p> | <p>Operating</p> | <p>December 07</p> | <p>August 07 On-going</p> |

TFA 2: Teacher Preparation – Goal, Objectives and Action Plan **2007-10**

Goal 2: Through an on-going professional development program that supports adult learning, teachers will deliver effective technology-rich instruction that motivates and challenges students with diverse learning styles and abilities to achieve at higher cognitive levels.

Objective 2.1: All district teachers will demonstrate technology proficiency as measured by the NETS*T and CSD4 Board approved teacher competencies.

MSIP Alignment: 6.7.2, 6.7.3, 6.7.4, 6.7.5, 6.7.6 **CSIP Alignment:** 1.1.9-11, 1.1.14-15

Missouri Education Technology Strategic Plan: Goal 2 Objective 1,2,4

Corrective Strategies: If teacher skills and competencies do not show growth through principal observations and teacher/administrative surveys, we will examine the PD training design and implementation.

| Action Step/Activity (Expected Progress and how measured) | Person(s) Responsible | Direct Cost | Funding Source | Benchmark Review Date(s) | Timeline Begin-End Dates |
|--|--------------------------------|-------------|----------------|----------------------------|--------------------------|
| 2.1.1 Assess certified staff’s basic level of technology integration using a survey instrument (i.e. LoTI). Progress Expectations/Measurements: Instrument identified, survey conducted, results assessed and program developed accordingly. | Inst. Technology Director | None | Operating | September 2007 Annually | June 2007 Ongoing |
| 2.1.2 Certified staff will develop skills and strategies to analyze local and state assessments to monitor student and educator progress and drive professional development changes. Progress Expectations/Measurements: Evidence of staff response to professional development offered observed by building principals. | Principals Director of CI&A | None | Operating | August 2007 Ongoing | August 2007 Ongoing |

| | | | | | |
|---|--|------------------|--------------------|--|---------------------------------|
| <p>2.1.3 Data Analyst will be hired to support staff in research, acquisition, analysis and reporting data needed to make instructional and professional development decisions.</p> <p>Progress Expectations/Measurements: Analyst work with all schools and central office to provide system reports and analysis of reports.</p> | <p>Assoc. Superintendent for C&I Inst. Technology Director C&I Director Instructional Coordinators</p> | <p>\$ 75,000</p> | <p>Operational</p> | <p>Annual</p> | <p>June 07 on-going</p> |
| <p>2.1.4 Professional development activities will include NETS*T and NETS*A technology standards.</p> <p>Progress Expectations/Measurements: Evaluate Professional development opportunities related to technology competencies and integration strategies.</p> | <p>Inst. Technology Director Principals</p> | <p>None</p> | <p>Operating</p> | <p>September 2007 Annual Review</p> | <p>July 2007 Ongoing</p> |
| <p>2.1.5 Provide opportunities for all staff to increase their technology proficiency regardless of their current level of technology integration.</p> <p>Progress Expectations/Measurements: Technology Academy course catalog and teacher evaluations of training.</p> | <p>Principals Inst. Technology Director</p> | <p>None</p> | <p>Operating</p> | <p>June 2007 June 2008 June 2009</p> | <p>August 2007 Ongoing</p> |
| <p>2.1.6 Design a technology integration component of the district teacher performance evaluation instrument that includes proficiency standards as identified by the NETS*T and the CSD4 Board approved teacher technology competencies.</p> <p>Progress Expectations/Measurements: Teacher Performance Evaluation instrument component added. Evaluation data used to assist PD and ensure technology standards are implemented.</p> | <p>Director of HR Assistant Superintendent of C&A Grandview 10 Inst. Technology Director</p> | <p>None</p> | <p>Operating</p> | <p>June 2007 April 2008</p> | <p>June 2007 April 2008</p> |

TFA 2: Teacher Preparation – Goal, Objectives and Action Plan

Goal 2: Through an on-going professional development program that supports adult learning, teachers will deliver effective technology-rich instruction that motivates and challenges students with diverse learning styles and abilities to achieve at higher cognitive levels.

Objective 2.2: CSD4 will implement effective professional development strategies and support to address educator preparation and enhanced learning.

MSIP Alignment: 6.4.1, 6.5.2, 6.4.3, 6.4.4, 6.7.2, 6.7.3, 6.7.4, 6.7.5, 6.7.6

CSIP Alignment: 1.1.9, 1.1.11-13, 1.1.15-16

Missouri Education Technology Strategic Plan: Goal 5, Objective 2

Correction Strategies: Staff PD activities will be re-evaluated for effectiveness if surveys and principal observations do not indicate growth as indicated.

| Action Step/Activity (Expected Progress and how measured) | Person(s) Responsible | Direct Cost | Funding Source | Benchmark Review Date(s) | Timeline Begin-End Dates |
|---|--|-------------|----------------|---------------------------|--------------------------|
| 2.2.1 Multiple opportunities will be provided for certified staff to engage in technology including on-line classes, teacher academies Progress Expectations/Measurements: Evidence of certified staff participation catalog and syllabi of classes offered. | Assist. Superintendent for C&I Prof. Dev. Coordinator Inst. Technology Director | \$6,000 | Operating | December 2007 Annually | June 2007 Ongoing |
| 2.1.2 Teachers will integrate technology based instructional strategies into lesson design. Progress Expectations/Measurements: Administrative review of teachers lesson plans. Professional Development plans will include teacher use component. | Principals | None | Operating | August 2007 Ongoing | August 2007 Ongoing |
| 2.1.3 Instructional Coaches will teach integration strategies to Library/Media Specialists so they will be leaders for incorporating the Student Technology Competencies. Progress Expectations/Measurements: Technology Resource Facilitator will provide training to increase technology integration support. | C&I Director Inst. Technology Director ISC Coordinators Instructional Coaches | None | Title I | December 2008 Annually | June 2007 Ongoing |
| 2.1.4 Teachers/Media Specialists will assist students to | Instructional Coaches | None | Operating | August 2007 Ongoing | June 2007 |

TFA 2: Teacher Preparation – Goal, Objectives and Action Plan

Goal 2: Through an on-going professional development program that supports adult learning, teachers will deliver effective technology-rich instruction that motivates and challenges students with diverse learning styles and abilities to achieve at higher cognitive levels.

Objective 2.2: CSD4 will implement effective professional development strategies and support to address educator preparation and enhanced learning.

MSIP Alignment: 6.4.1, 6.5.2, 6.4.3, 6.4.4, 6.7.2, 6.7.3, 6.7.4, 6.7.5, 6.7.6

CSIP Alignment: 1.1.9, 1.1.11-13, 1.1.15-16

Missouri Education Technology Strategic Plan: Goal 5, Objective 2

Correction Strategies: Staff PD activities will be re-evaluated for effectiveness if surveys and principal observations do not indicate growth as indicated.

| Action Step/Activity (Expected Progress and how measured) | Person(s) Responsible | Direct Cost | Funding Source | Benchmark Review Date(s) | Timeline Begin-End Dates |
|--|---|-------------|----------------|--------------------------|--------------------------|
| integrate Technology Competencies into all district curricula. Progress Expectations/Measurements: (1) Teachers will use model lessons through all curricular subjects accessible through GVNet.(2) Student projects will reflect increase in use of technology. | Inst. Technology Director C&I Director | | | | June 2008 |
| 2.1.5 Principals will ensure the implementation of the Student Technology Competencies. Progress Expectations/Measurements: Data gathered from principals on student competency assessments and through formal and informal teacher observations. | Assist. Superintendent for C&I Principals | None | Operating | June 2007 Ongoing | August 2007 Ongoing |

TFA 3: Administration, Data Management, Communications – Goal, Objectives and Action Plan

Goal 3: Grandview C-4 will implement effective and efficient administration, data management and communication process through the use of technology and further support teaching and learning.

Objective 3.1: Grandview C-4 will have appropriate and effective administrative, data management and communication policies and procedures

MSIP Alignment: 6.4.1 & 8.6.5

CSIP Alignment: 4.1.1

Missouri Education Technology Strategic Plan: A2

Corrective Strategies: Examination of Technology Advisory Committee goals will occur. Evaluation of Board Policy implementation progress.

| Action Step/Activity (Expected Progress and how measured) | Person(s) Responsible | Direct Cost | Funding Source | Benchmark Review Date(s) | Timeline Begin-End Dates |
|--|--|-------------|----------------|--------------------------|--------------------------------------|
| 3.1.1 Create a Technology Advisory Committee to meet regularly to oversee the implementation of the District Technology Plan. Progress Measurement: Committee established, agenda and minutes posted, reports given to the Board of Education. | Superintendent Assist. Superintendent for C&I | None | Operating | August 2007 | June 2007 ongoing |
| 3.1.2: Review, update and implement board policies regarding to data management and access. Progress Measurement: Updated policy has been created and posted. Implement process monitored by responsible persons. | Superintendent Board of Education | None | None | Yearly | September 2007 September 2010 |

TFA 3: Administration, Data Management, Communications – Goal, Objectives and Action Plan

Goal 3: Grandview C-4 will implement effective and efficient administration, data management and communication process through the use of technology and further support teaching and learning.

Objective 3.2: Grandview C-4 will provide and support comprehensive administrative systems.

MSIP Alignment:6.4.1 & 8.6.5 **CSIP Alignment:** 4.1.1 &4.1.3

Missouri Education Technology Strategic Plan: A2

Corrective Strategies: Technology Advisory Committee will examine implementation of administrative systems, training and support activities. System records will be reviewed for implementation progress and status.

| Action Step/Activity (Expected Progress and how measured) | Person(s) Responsible | Direct Cost | Funding Source | Benchmark Review Date(s) | Timeline Begin-End Dates |
|---|---|-------------|----------------|--------------------------|------------------------------|
| 3.2.1: Provide additional IT staffing, if necessary to support administrative system implementations. Progress Measurement: Additional Staff hired | Cabinet Department heads | TBA | Operating | Ongoing | August 2007 June 2008 |
| 3.2.2: Acquire and implement a transportation software program to plan and track routes. Progress Measurement: Program application has been purchased and implemented. | Director of Transportation Director of ITS | \$15,000 | Operating | Ongoing | July 2007 June 2008 |
| 3.2.3: Implement an automated maintenance work order system. Progress Measurement: Maintenance work order system purchased and operating. | Director of Maintenance | None | None | Ongoing | July 2007 June 2008 |
| 3.2.5: Utilize current computerized library system for textbooks inventory or purchase new inventory system. Progress Measurement: System purchased, and all textbooks are inventoried. | Director of ITS Assistant Superintendent for C&I Director for C&I | \$20,000 | Operating | Ongoing | August 2007 June 2008 |

TFA 3: Administration, Data Management, Communications – Goal, Objectives and Action Plan

Goal 3: Grandview C-4 will implement effective and efficient administration, data management and communication process through the use of technology and further support teaching and learning.

Objective 3.2: Grandview C-4 will provide and support comprehensive administrative systems.

MSIP Alignment:6.4.1 & 8.6.5 **CSIP Alignment:** 4.1.1 &4.1.3

Missouri Education Technology Strategic Plan: A2

Corrective Strategies: Technology Advisory Committee will examine implementation of administrative systems, training and support activities. System records will be reviewed for implementation progress and status.

| Action Step/Activity (Expected Progress and how measured) | Person(s) Responsible | Direct Cost | Funding Source | Benchmark Review Date(s) | Timeline Begin-End Dates |
|---|---|--------------------|-----------------------|---------------------------------|----------------------------------|
| 3.2.6: Acquire and implement a professional development tracking system. Progress Measurement: System purchased and utilized as evidenced by Professional Development plans. | Assistant Superintendent for Curriculum and Instruction Coordinator for Professional Development | \$20,000 | Operating | Ongoing | August 2007 December 2008 |
| 3.2.7: Fully implement the school web pages and maintain up to date information on them. Progress Measurement: Training on web page design conducted. Web pages posted and maintained | Director of ITS Building Principals | None | None | Ongoing | July 2007 June 2008 |
| 3.2.8: Re-evaluate the SIS system and make recommendations for full implementation or the purchase of a new system. Progress Measurement: System updated or new system in purchased. | Cabinet Director of ITS | \$150,000 | Operating | Ongoing | July 2007 June 2008 |

TFA 3: Administration, Data Management, Communications – Goal, Objectives and Action Plan

Goal 3: Grandview C-4 will implement effective and efficient administration, data management and communication process through the use of technology and further support teaching and learning.

Objective 3.3: Grandview C-4 will provide and support appropriate data management tools.

MSIP Alignment: 6.4.1 & 6.4.4 **CSIP Alignment:** 4.1.4

Missouri Education Technology Strategic Plan: A2

Corrective Strategies: Technology Advisory committee will examine progress on a regular basis. Implementation of systems will be monitored adjusted as necessary by District Administration.

| Action Step/Activity (Expected Progress and how measured) | Person(s) Responsible | Direct Cost | Funding Source | Benchmark Review Date(s) | Timeline Begin-End Dates |
|---|--|--------------------|-----------------------|---------------------------------|---------------------------------|
| <p>3.3.1: Acquire and implement a SIF compliant data warehouse or a data mart system to ensure all District data sources are connected.</p> <p>Progress Measurement: Data management program in place and being utilized.</p> | Cabinet | \$40,000 | Operating | Annually | July 2007 June 2010 |
| <p>3.3.2: Acquire and implement an instructional management system to assist teachers to manage curriculum, create assessments and corresponding reports of student mastery.</p> <p>Progress Measurement: Instructional management program in place and being utilized</p> | Assistant Superintendent for Curriculum and Instruction Inst. Technology Director C&I Director | \$125,000 | Operating | Quarterly | July 2007 June 2008 |
| <p>3.3.3: Provide additional IT staff (if necessary) to manage the data warehouse system and instruction management systems.</p> <p>Progress Measurement: Additional staff hired.</p> | Assistant Superintendent for Human Resources Director of ITS | None TBA | Operating | Quarterly | July 2007 June 2008 |
| <p>3.3.4 Acquire a survey tool to allow for the design, collection and management of data from the solicitation of information gathered from online and print generated surveys.</p> <p>Progress Measurement: Surveys conducted, reports generated and data used. Numerous evaluations of technology plan action steps will be made by using this survey tool.</p> | Director of ITS Inst. Technology Director | \$4,000 | Operating | Quarterly | June 2007 June 2009 |

TFA 3: Administration, Data Management, Communications – Goal, Objectives and Action Plan

Goal 3: Grandview C-4 will implement effective and efficient administration, data management and communication process through the use of technology and further support teaching and learning.

Objective 3.4: Grandview C-4 will provide and support effective communication tools.

MSIP Alignment: 8.8.2 **CSIP Alignment:** 4.1.2
Missouri Education Technology Strategic Plan: A2

Corrective Strategies: If surveys, records or parents indicate communication tools are not effective or utilized effectively district administration will examine policy and procedures as well as implementation activities to correct problem areas.

| Action Step/Activity (Expected Progress and how measured) | Person(s) Responsible | Direct Cost | Funding Source | Benchmark Review Date(s) | Timeline Begin-End Dates |
|---|--|--------------------|-----------------------|---------------------------------|---------------------------------|
| 3.4.1: Fully implement and maintain the parent communication module of SIS or acquire a parent communication program and implement. Progress Measurement: Parent communication program is in place and being maintained | Cabinet Director of ITS Principals | \$15,000 | Operating | Quarterly | July 2007 August 2008 |
| 3.4.2: Fully utilize the Microsoft outlook calendar for scheduling meetings and for time management. Progress Measurement: Employees being scheduled for district meetings using the Microsoft Outlook Calendar. | Cabinet | None | None | Ongoing | July 2007 June 2010 |

TFA 3: Administration, Data Management, Communications – Goal, Objectives and Action Plan

Goal 3: Grandview C-4 will implement effective and efficient administration, data management and communication process through the use of technology and further support teaching and learning.

Objective 3.5: Grandview C-4 will provide adequate training for administrative and communication systems.

MSIP Alignment: 6.4.3

CSIP Alignment: 1.1.5

Missouri Education Technology Strategic Plan: A2

Correction Strategies: Monitoring training and participant surveys will provide details if training is not effective. Evaluation of survey data and usage reports will be examined and action taken to correct progress in training activities. Provide training and support as needed.

| Action Step/Activity (Expected Progress and how measured) | Person(s) Responsible | Direct Cost | Funding Source | Benchmark Review Date(s) | Timeline Begin-End Dates |
|--|---|--------------------|-----------------------|---------------------------------|---------------------------------|
| 3.5.1: Provide lab training for Microsoft Outlook calendar usage. Progress Measurement: Lab trainings scheduled and held. | ITS Director Inst. Technology Director | None | None | Ongoing | July 2007 June 2010 |
| 3.5.2: Assure that professional development training is provided for all new implemented systems. Progress Measurement: Professional training scheduled and held. | Coordinator for Professional Development Inst. Technology Director | \$50,000 | Title I Operating | Ongoing | July 2007 June 2010 |
| 3.5.3: Continue to provide ongoing training on all district technology systems. Progress Measurement: Training classes scheduled and held. | Inst. Technology Director | None | None | Ongoing | July 2007 June 2010 |
| 3.5.4: Provide training for new staff on district technology systems that are pertinent to their jobs. Progress Measurement: Training classes scheduled and held. Evaluation survey conducted. | Assistant Superintendent for Human Resources PD Coordinator Inst. Technology Director | None | None | Ongoing | July 2007 June 2010 |

TFA 4: Resource Distribution – Goal, Objectives and Action Plan

Goal 4: CSD4 will provide current technology resources to promote a high level of professional and academic performance by students and staff.

Objective 4.1: The district will develop, implement and maintain essential hardware, software and network connectivity to maximize district management operations.

MSIP Alignment: 6.3.1-2, 6.4.1,3 CSIP Alignment: 1.13.5, 1.14.1-3

Missouri Education Technology Strategic Plan: Resource Distribution, R1

Corrective Strategies: Adjustments will be made based on building configurations, needs and usage.

| Action Step/Activity (Expected Progress and how measured) | Person(s) Responsible | Direct Cost | Funding Source | Benchmark Review Date(s) | Timeline Begin-End Dates |
|---|--|--------------------|-----------------------|--|---------------------------------|
| 4.1.1 Develop a district minimum standard for hardware, telecommunications and computing systems. Progress Measurement: Standards developed and implemented at district sites. | Director of ITS Technology Advisory Committee | None | Operating | September 2007 June 2008 June 2009 | June 2007 Ongoing |
| 4.1.2 Periodic evaluations of purchased technologies to determine effectiveness within management operations. Progress Measurement: Schedule of evaluations is established and maintained. | Director of ITS Technology Advisory Committee | None | Operating | September 2007 June 2008 June 2009 | June 2007 Ongoing |
| 4.1.3 Develop a formal district-wide inventory tracking system for hardware, software and peripherals. Progress Measurement: District-wide tracking system is developed, utilized and maintained. | Director of ITS | None | Operating | December 2007 | June 2007 April 2008 |

TFA 4: Resource Distribution – Goal, Objectives and Action Plan

Goal 4: CSD4 will provide current technology resources to promote a high level of professional and academic performance by students and staff.

Objective 4.2: Continue to acquire consistent upgrades for equipment and software applications and implement and maintain a rotation/replacement policy plan to ensure equitability among all buildings.

MSIP Alignment: 6.4.1, 6.4.2 CSIP Alignment: 1.1.3, 4.3.1-2

Missouri Education Technology Strategic Plan: Resource Distribution, R1

Corrective Strategies: Survey reports and Technology Advisory Committee evaluations will guide corrective actions as needed.

| Action Step/Activity (Expected Progress and how measured) | Person(s) Responsible | Direct Cost | Funding Source | Benchmark Review Date(s) | Timeline Begin-End Dates |
|---|--|--------------------|-----------------------|--|---------------------------------|
| 4.2.1 Implement and maintain a scheduled computer rotation/replacement plan. Progress Measurement: Rotational plan implemented. | Technology Advisory Committee Director of ITS | None | Operating | September 2007 June 2008 June 2009 | June 2007 Ongoing |
| 4.2.2 Establish a classroom student /computer ratio consistent with State Strategic Plan recommendations. Progress Measurement: Ratio established. | Technology Advisory Committee ITS Director Inst. Technology Director | None | Operating | September 2007 June 2008 June 2009 | June 2007 Ongoing |
| 4.2.3 Establish a computer lab at every building that will accommodate the maximum classroom student count. Progress Measurement: computer labs implemented. | Director of ITS Inst. Technology Director | 225,000 | Operating | June 2007 June 2008 June 2009 | June 2007 June 2009 |
| 4.2.4 Continue to research new software applications that promote student learning for all student groups. Progress Measurement: PD activities conducted to expose staff to new software applications. | Technology Advisory Committee Inst. Technology Director | None | Operating | June 2007 December 2007 December 2008 December 2009 | June 2007 Ongoing |
| 4.2.5 As new technologies become available, educational benefits will be evaluated and decisions made for district purchase. Progress Measurement: Survey results will be gathered and evaluation report generated. | Technology Advisory Committee | None | Operating | December 2007 | June 2007 Ongoing |

TFA 4: Resource Distribution – Goal, Objectives and Action Plan

Goal 4: CSD4 will provide current technology resources to promote a high level of professional and academic performance by students and staff.

Objective 4.2: Continue to acquire consistent upgrades for equipment and software applications and implement and maintain a rotation/replacement policy plan to ensure equitability among all buildings.

MSIP Alignment: 6.4.1, 6.4.2 CSIP Alignment: 1.1.3, 4.3.1-2

Missouri Education Technology Strategic Plan: Resource Distribution, R1

Corrective Strategies: Survey reports and Technology Advisory Committee evaluations will guide corrective actions as needed.

| Action Step/Activity (Expected Progress and how measured) | Person(s) Responsible | Direct Cost | Funding Source | Benchmark Review Date(s) | Timeline Begin-End Dates |
|--|---|--------------------|-----------------------|---------------------------------|---------------------------------|
| 4.2.6 Instructional software and digital learning resources will be chosen and implemented based on curricular needs. Progress Measurement: Analysis/Audit conducted. Curricular software and resources purchased and monitored use through administrator evaluations. | Technology Advisory Committee | TBA | Operating | June 2007-Ongoing | June 2007 June 2009 |
| 4.2.7 Frequent evaluations of purchased software will be done to determine continued alignment with curriculum. Progress Measurement: Curriculum Coordination with selected software applications. CI&A will provide survey results. | C&I Director Inst. Technology Director | None | Operating | August 2007 Annually | June 2007 June 2009 |

TFA 4: Resource Distribution – Goal, Objectives and Action Plan

Goal 4: CSD4 will provide current technology resources to promote a high level of professional and academic performance by students and staff.

Objective 4.3: Develop and implement a plan that creates a budget and maintains standards for our technological infrastructure that permits addition/change of technologies to support instruction and district management systems.

MSIP Alignment:

CSIP Alignment: 1.1.3, 4.4.1-5

Missouri Education Technology Strategic Plan: Resource Distribution R1

Corrective Strategies: Re-examination and inclusion of new budget line items if action strategies of new budget plan is not able to be met.

| Action Step/Activity (Expected Progress and how measured) | Person(s) Responsible | Direct Cost | Funding Source | Benchmark Review Date(s) | Timeline Begin-End Dates |
|--|-----------------------|-------------|----------------|--------------------------|--------------------------|
| 4.3.1 Target district funds for technology implementation and create and implement a technology budget. Progress Measurement: Technology budget created and reviewed annually. | Cabinet | None | Operating | September 2007 | June 2007 Ongoing |
| 4.3.2 Building infrastructures should be examined to determine effectiveness. Progress Measurement: Record of reviews are maintained | Director of ITS | None | Operating | September 2007 | April 2008 |
| 4.3.3 Develop a plan for district-wide maintenance and upgrades. Progress Measurement: Plan is developed and implemented. | Director of ITS | None | Operating | December 2007 | June 2007 Dec. 2007 |

TFA 4: Resource Distribution – Goal, Objectives and Action Plan

Goal 4: CSD4 will provide current technology resources to promote a high level of professional and academic performance by students and staff.

Objective 4.4: Establish and implement a specific technology budget to ensure appropriate funding to meet the needs of the district technology plan.

MSIP Alignment: 6.3.5, 6.4.1,2; 6.8.1,3,4;7.6; 8.6.1,3,5;8.12;8.13

CSIP Alignment: 1.1.3, 8, 14, 16; 2.1.1; 4.1.2-4; 4.2.1

Missouri Education Technology Strategic Plan:

Correction Strategies: Fund budget line items as identified in budget plan, increasing/decreasing line items as needed to adjust for changes to meet plan needs.

| Action Step/Activity (Expected Progress and how measured) | Person(s) Responsible | Direct Cost | Funding Source | Benchmark Review Date(s) | Timeline Begin-End Dates |
|--|--------------------------------|--------------------|-----------------------|---------------------------------|---------------------------------|
| 4.4.1 Develop a line item technology budget to support the District Technology Plan. Progress Measurement: Budget developed and reviewed annually with implementation progress reported to the Board of Education. | Cabinet Director of Finance | None | Operating | August 2007 Annually | June 2007 Ongoing |

TFA 5: Technical Support – Goal, Objectives and Action Plan

Goal 5: CSD#4 will provide end users with timely professional support and technical assistance to maintain technology for student learning and everyday operations.

Objective 5.1: Provide users with a reliable network infrastructure and equipment through a high level of customer support and assistance.

MSIP Alignment: 6.4.1 CSIP Alignment: 4.1.4

Missouri Education Technology Strategic Plan: TS Technical Support

Corrective Strategies: : If objective is not met then a reevaluation of what current resources are being used for and reallocate or secure additional resources as required.

| Action Step/Activity (Expected Progress and how measured) | Person(s) Responsible | Direct Cost | Funding Source | Benchmark Review Date(s) | Timeline Begin-End Dates |
|--|-----------------------|--|----------------|--------------------------|--------------------------|
| 5.1.1 Increase Bandwidth between buildings. Progress Measurement: When Bandwidth is increased between Sites with a 10 Meg minimum connection this action is complete. | Director of ITS | \$10,000 per month minus e-rate discount of 62%. | Operating | Quarterly | June 07- August 08 |
| 5.1.2 Backup solution for files stored on network with one week maximum acceptable loss. Progress Measurement: Backups are consistently and reliably being automated. Backups should be tested no less than once a year. | Director of ITS | \$25,000 | Operating | Quarterly | June 07 |
| 5.1.3 Update Server 2003 to R2. Progress Measurement: R2 is installed on all applicable servers | Director of ITS | \$25,000 | Operating | Quarterly | June 07 |
| 5.1.4 Upgrade Routers. Progress Measurement: Upgraded Router are in place and being utilized | Director of ITS | \$45,000 | Operating | Quarterly | June 07 |
| 5.1.5 Standardize Wireless Manageability. Progress Measurement: When wireless devices can easily be easily set up with reasonable security and little end user setup. | Director of ITS | \$50,000 | Operating | Quarterly | June 07 |

| TFA 5: Technical Support – Goal, Objectives and Action Plan Goal 5: CSD#4 will provide end users with timely professional support and technical assistance to maintain technology for student learning and everyday operations. | | | | | |
|--|------------------------------|--------------------|-----------------------|---------------------------------|---------------------------------|
| Objective 5.1: Provide users with a reliable network infrastructure and equipment through a high level of customer support and assistance. | | | | | |
| MSIP Alignment: CSIP Alignment: Missouri Education Technology Strategic Plan: TS Technical Support Corrective Strategies: If objective is not met then a reevaluation of what current resources are being used for and reallocate or secure additional resources as required. | | | | | |
| Action Step/Activity (Expected Progress and how measured) | Person(s) Responsible | Direct Cost | Funding Source | Benchmark Review Date(s) | Timeline Begin-End Dates |
| 5.1.6 Develop policies and procedures for ITS department to provide better customer support, feedback, and communication with end users (marked as weakness from 04-07 Plan). Progress Measurement: Methods are utilized to get feedback and to communicate with end users | Director of ITS | None | Operating | Annually | June 07- August 08 |
| 5.1.7 Provide new or refresher training for all members of the ITS staff to keep up with changing technologies and trends (marked as weakness from 04-07 Plan). Progress Measurement: IT staff is has access to training materials and or training classes that will keep our district informed on latest technology | Director of ITS | \$ 10,000 | Operating | Quarterly | June 07- August 08 |
| 5.1.8 Develop strategies for deployment of new operating systems for servers and workstations to provide a high level of customer satisfaction with new products and technologies (marked as weakness from 04-07 Plan). Progress Measurement: Plan developed and submitted to Technology Advisory Committee and Cabinet. | Director of ITS | None | Operating | Quarterly | June 07- August 08 |
| 5.1.9 Develop standards to measure effectiveness of customer support provided by ITS (marked as weakness from 04-07 Plan). Progress Measurement: Method(s) is developed that shows IT person level of effectiveness they provide | Director of ITS | None | Operating | Quarterly | June 07- August 08 |

TFA 5: Technical Support – Goal, Objectives and Action Plan

Goal 5: CSD#4 will provide end users with timely professional support and technical assistance to maintain technology for student learning and everyday operations.

Objective 5.1: Provide users with a reliable network infrastructure and equipment through a high level of customer support and assistance.

MSIP Alignment:

CSIP Alignment:

Missouri Education Technology Strategic Plan: TS Technical Support

Corrective Strategies If objective is not met then a reevaluation of what current resources are being used for and reallocate or secure additional resources as required

| Action Step/Activity (Expected Progress and how measured) | Person(s) Responsible | Direct Cost | Funding Source | Benchmark Review Date(s) | Timeline Begin-End Dates |
|---|-----------------------|-------------|----------------|--------------------------|--------------------------|
| 5.1.10 Continue to provide adequate Antivirus and Spam filtering to protect network environment. Progress Measurement: Keep current with virus and spam definitions. | Director of ITS | None | Operating | Quarterly | June 2007- August 2010 |
| 5.1.11 Evaluate effectiveness and access of proxy server to allow Laptops to reach internet. Progress Measurement: Laptops can be used to access the internet from home (provided they have their own security in place) with little user intervention. | Director of ITS | None | Operating | Quarterly | August 2007- June 2008 |

TFA 5: Technical Support – Goal, Objectives and Action Plan

Goal 5: CSD#4 will provide end users with timely professional support and technical assistance to maintain technology for student learning and everyday operations.

Objective 5.2: Protect hardware and software while maintaining an acceptable level of service.

MSIP Alignment: 6.4.1

CSIP Alignment: 4.1.4

Missouri Education Technology Strategic Plan: TS Technical Support

Corrective Strategies: Evaluate why protection or acceptable level of service failed and make adjustment to correct service.

| Action Step/Activity (Expected Progress and how measured) | Person(s) Responsible | Direct Cost | Funding Source | Benchmark Review Date(s) | Timeline Begin-End Dates |
|--|-----------------------|-------------|----------------|--------------------------|--------------------------|
| 5.2.1 Upgrade/replace district firewall Progress Measurement: Firewall receives update or is replaced. District is reasonably protected from devious attacks | ITS | \$7,500 | Operating | December 2007 | June 2007-December 2008 |
| 5.2.2 Evaluation of Student Information System. Ensuring program is SIF (Schools Interoperability Framework) compliant. Progress Measurement: Our district is utilizing a SIS that is SIF compliant, allowing us to implement features SIF provides. | ITS | None | Operating | Monthly | June 2007 August 2008 |
| 5.2.3 Making standard procedure when evaluating any data base programs to that it is SIF (Schools Interoperability Framework) compliant. Progress Measurement: Standards are in place to ensure new district software is SIF compliant | ITS | None | Operating | Quarterly | Ongoing |
| 5.2.4 Annual re-imaging of slower computers to keep them optimized Progress Measurement: Re-imaging of slower computers. | ITS | None | Operating | Annually | Ongoing |

TFA 5: Technical Support – Goal, Objectives and Action Plan

Goal 5: CSD#4 will provide end users with timely professional support and technical assistance to maintain technology for student learning and everyday operations.

Objective 5.3: Increase utilization of GVnet (intranet site) as the information delivery method for all CSD#4 employees.

MSIP Alignment: 6.4.3

CSIP Alignment: 1.1.15

Missouri Education Technology Strategic Plan: TS Technical Support.

Corrective Strategies: Conduct survey to inquire users of GVnet of how it can be more effective.

| Action Step/Activity (Expected Progress and how measured) | Person(s) Responsible | Direct Cost | Funding Source | Benchmark Review Date(s) | Timeline Begin-End Dates |
|---|------------------------------|--------------------|-----------------------|---------------------------------|---------------------------------|
| 5.3.1 Place appropriate CSD#4 forms and documents on GVnet (marked as weakness from 04-07 Plan). Progress Measurement: Forms are on GVNET | ITS | None | Operating | Quarterly | June 2007 Ongoing |
| 5.3.2 Evaluate functions that could be available externally (IE Staff Directory) Progress Measurement: Evaluation of what can be placed on the external web page while keeping privacy and security in mind | ITS | None | Operating | Quarterly | June 2007 Ongoing |

Communication/Dissemination, Monitoring and Evaluation

Communication/Dissemination, Monitoring and Evaluation

Communication/Dissemination

The Grandview School District's persons accountable for specific components of technology plan implementation continually monitor the progress of the actions and strategies associated with the implementation processes. Every three years district leaderships formally reviews and evaluates the current technology plan and writes a new District Technology Plan consistent with state and national guidelines. Each current plan and supporting documentation is made available to district stakeholders in electronic format and through informative report presentations at building and central office meetings. In addition, announcements of action highlights will be included in Grandview's District (print and digital) Newsletters. The district will include an interactive component to the district's web site to encourage feedback from parents and the Grandview community.

Monitoring

It is the role of the Grandview C-4 Technology Advisory Committee to provide ongoing leadership in monitoring the district technology improvement efforts. Committee representation will report progress to the Superintendent's Cabinet quarterly. The committee will seek input, determine additional needs and challenges, investigate new approaches, and revisit the district's Technology Plan and present to the Board of Education annually. Meetings with the committee will be held at any time significant changes are suggested to the plan. Updates of these changes/correction strategies will be presented to the Board of Education annually as a part of the Technology Program Evaluation. Within the plan are several objectives and action items that implement monitoring tools to collect data on the status of technology within the district. Data will be used to evaluate the implementation of the objectives of the plan, and to support changes as needed. Monitoring our plan is an ongoing activity as many action step strategies are expected to be completed at various times throughout the implementation process and our plan is designed to adapt to change as necessary.

Evaluation

The Grandview C-4 Technology Plan has been written with measurable action steps so that the committee can effectively evaluate improvement as outlined within the plan. In addition, objectives and action items have stressed assessment and provisions for correction measures of the plan's goals. Assessment tools such as surveys of staff, students, and community, as well as technology usage and service logs, staff development records, and technology user feedback will aid in the development of needs assessments and an evaluation of the plan.

The newly appointed District Technology Advisory Committee will meet to evaluate the plan each May to determine the plan's effectiveness in instructional and management programs. The review will use the following criteria and assessment

- Status of each TFA goal
- Status of each TFA's action plan, implementation and timeline.
- Staff professional development surveys
- Student surveys
- Feedback/evaluations from technology projects
- Student assessment data

Technology Plan

Technology Plan Acronyms and Abbreviations Glossary

| Acronym | Brief Definition |
|---------|---|
| CI&A | Curriculum, Instruction and Assessment |
| COT | Census of Technology |
| CSIP | Comprehensive School Improvement Plan |
| DESE | Missouri Department of Elementary and Secondary Education |
| FTE | Full Time Employee |
| GVNet | Grandview Intranet |
| HR | Human Resource Department |
| ISTE | International Society for Technology in Education |
| ITS | Information Technology Services Department |
| LAN | Local Area Network |
| MAP | Missouri Assessment Program |
| NETS*A | National Educational Technology Standards-Administrators |
| NETS*S | National Educational Technology Standards-Students |
| NETS*T | National Educational Technology Standards-Teachers |
| PD | Professional Development |
| PDC | Professional Development Committee |
| PDP | Professional Development Plan |
| SIP | School Improvement Plan |
| TCO | Total Cost of Ownership |
| TFA | Technology Focus Area-The district technology Plan has 5 Technology Focus Areas (1) Student Learning (2) Teacher Preparation (3) Administration, Data Management, and Communications (4) Resource Distribution (5) Technical Support |
| WAN | Wide Area Network |