

## 2007-2010 TECHNOLOGY PLAN

### DISTRICT TECHNOLOGY GOALS

**Technology Literacy Goal:** Student engagement in learning increases with technology.

**SMART Goal Statement:** Students in the 8<sup>th</sup> grade will increase from 73% to 80% in Tier 2 and 3 as measured by the PILOT tool.

**Strategy:** Learning is differentiated and active.

**Rationale:** District strategic plan calls for personalized learning for all students.

**Evaluation Procedure:** Data analysis of percentage of students at standard: Our expectation is to see an increase from 2007 to 2010.

Activity/Task	Professional Development	Evaluation (Measurable Change)	People Involved	Starting and Ending Dates	Resources: Description / Type	Cost / Funding Source
Students build understandings and concepts in Mathematics.	6-12 Instructional Staff receive training and ongoing support of Cognitive Tutor, NovaNET, and web resources  K-5 staff receive training on a support solution yet to be identified	Secondary student test scores in Math increase by 5%  Elementary students increase scores on MAP assessment	8-12 math teachers, Curriculum Dept. and Instructional Tech. Dept staff, Network Services  K-5 staff to determine support solution	2007-2010 ongoing	TS: Cognitive Tutor, MAP and NovaNET support  SW: Cognitive Tutor and NovaNET licenses  HW: Graphing calculators	TS: Network and Instruct. Tech. Dept. Budget  PD: Curriculum Depart. Budget  SW: General Fund, Tech Levy (\$46,000/yr)  HW: Building and Title funds (\$100/unit)

Students build understandings and concepts in Reading.	6-12 Instructional Staff receive training and ongoing support of reading support and web resources	Students increase achievement scores in Reading	6-12 teachers, Curriculum Dept. and Instructional Tech. Dept staff,	2007-2008 determine expansion needs for Reading interventions 2008-2010 expansion of Reading support program	SW: Reading supportt, explore other supports TS: support and system installation	SW: Tech Levy yearly license (\$2,800/ site) TS: General Fund
Students build understandings and concepts in Science.	6-12 Science teachers receive training and ongoing support for measuring and data collection tools	Students increase achievement scores in the area of Science	6-12 science teachers, Curriculum Dept. and Instructional Tech. Dept staff,	2007-2008 work with Curriculum Dept. to determine needs 2008-2010 develop and implement technology enhanced lessons	HW: GIS, GPS, and Probeware TS: installation of supporting software for peripherals	HW: Building Budget and Tech Levy Funds (\$50,000) TS: General Fund
Students develop technology input skills.	3-5 staff trained on keyboarding software to run reports and monitor student progress. K-12 staff receive training in Adaptive technologies	5 <sup>th</sup> grade students keyboard with an accuracy of 20wpm with 90% accuracy and proper technique.	3-5 staff, Instructional Tech. Staff, Network Services	2007-2008 select solution and field test 2008-2010 implementation	TS: install and support district software SW: district keyboarding, voice recognition HW: panel screens	SW: Tech Levy (\$12,000 one time for keyboarding ) TS: General Fund HW: Assistive Tech Budget, Title Funds (\$5,000)

Students are supported in the writing process.	1-2, ELL staff trained on the use of Clicker 4/5,  3-12 Inspiration, Word, and other software as a support in the writing process	Student writing assessment scores improve.	3-5 staff, Curriculum Dept. and Instructional Tech. Dept staff, Network Services	2007-2008 research enterprise solution  2008-2010 implement solution	TS: install and support district software  SW: Clicker 5 upgrade	SW: Tech Levy (\$12,000 one time for Clicker, \$38,000 one time for Inspiration)  TS: General Fund
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**Strategy:** Learning is constructed and inquiry based.

**Rationale:** District strategic plan calls for powerful teaching and learning strategies are in all classrooms.

**Evaluation Procedure:**

Activity/Task	Professional Development	Evaluation (Measurable Change)	People Involved	Starting and Ending Dates	Resources: Description / Type	Cost / Funding Source
US History content relies on primary source materials and an inquiry-learning model.	US History teachers attend monthly PD provided jointly by the Curriculum and Instructional Tech Departments	Improvement in student scores on US History CBA.	US History teachers, Curriculum and Instruct. Tech Depts.	2007-2010 ongoing	SW: primary source materials and archive service	PD: Curriculum and Instruct. Tech Dept. Budgets  SW: Title II D (\$10,000)
Students are supported in the research process.	3-9 staff participate in Technology Integration Tier 2 PD in the use web resources and 21 <sup>st</sup> Century Literacy Skills for web research.	Student online research scores improve based on district rubrics and Classroom Based Assessment (CBA).	3-9 staff, Curriculum Dept. and Instructional Tech. Dept staff	2007-2010 ongoing	TS: support of student accounts  SW: purchase of identified and approved resource databases	SW: Tech Levy approved databases, Nettekker DI (\$19,000/yr)  PD: Instruct. Tech. Dept. Budget (\$15,000)

Students brainstorm ideas, build concept maps, outlines, and scaffolds to support learning.	Staff participate in Technology Integration Tier 2 PD in the use of graphic organizers to improve student learning.	Improvement in student organization in writing, projects, and classroom based assessments	All Teachers using models, brainstorming, templates, and scaffolds for instruction	2007-2008 research enterprise installation  2009-2010 implementation	SW: Inspiration and Kidspiration  TS: install Inspiration and Kidspiration	PD: Curriculum and Instruct. Tech Dept. Budgets  SW: Tech Levy (noted above)  TS: General Fund
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**Strategy:** Learning is collaborative and communicative.

**Rationale:** District strategic plan calls for personalized learning for all students.

**Evaluation Procedure:** Increased use of online tools such as blogs, SharePoint sites, and project management tools.

Activity/Task	Professional Development	Evaluation (Measurable Change)	People Involved	Starting and Ending Dates	Resources: Description / Type	Cost / Funding Source
Students and teachers collaborate and communicate in an online environment to enhance student learning.	Instructional staff receive PD on SharePoint Learning Kit.	Student work improves and is completed on time.	Teachers of grades K – 12, Curriculum and Instruct. Tech Staff	2007-2008 solution designed and website moved 2008-2010 Staff use SharePoint	SW: SLK & SharePoint 7.0 TS: Share-Point & SLK Development, student managed sites and supported continuous storage	TS: Tech Levy (\$5,000) PD: Instruct. Tech Dept. Budget SW: for design and development (\$30,000) HW: Tech Levy (\$30,000)

Junior and Senior students are supported in the Culminating Project (CP) requirement.	Staff that support 11 <sup>th</sup> and 12 <sup>th</sup> graders in the Culminating Project.	Student scores on the CP rubric improve, projects are completed on time.	Teachers of grades 11,12, Culminating Project Team and Instruct. Tech Staff	2007-2008 field test 2008-2010 implemented and training 2009-2010 Middle School Pilot	SW: Edprops, Turnitin  TS: Install and support of Edprops	SW: Tech Levy, Gen. Fund (\$38,000)  PD: Instruct. Tech Dept. Budget  TS: General Fund
Students produce and use multi-media for assignments and projects.	K-12 staff are instructed on the use of video streaming, video production, podcasting, digital storytelling.	Number of video streams downloaded and use of video production equipment increases	K-12 staff, Network Services, Curriculum and Instructional Tech Dept. staff	2007-2008 Video server installed  2008-2010 video streaming service and video projects implemented	HW: digital video and still cameras, video production computers, video content and storage server SW: digital, video editing and production software	HW & SW: Tech Levy and General Fund (\$10,000 and \$20,000 for video server solution)  PD: General Fund, Title V A and Title II D (\$30,000/yr)  TS: General Fund
<p><b>Strategy:</b> Learning is available 24/7, and students are active contributors to the learning environment.</p> <p><b>Rationale:</b> District strategic plan calls for personalized learning for all students.</p> <p><b>Evaluation Procedure:</b> Data analysis of percentage of students at standard: Our expectation is to see an increase from 2007 to 2010. Data collected on use of electronic and digital resources shows an increase of use from 2007 to 2010.</p>						
Activity/Task	Professional Development	Evaluation (Measurable Change)	People Involved	Starting and Ending Dates	Resources: Description / Type	Cost / Funding Source

Students access anytime, anywhere learning opportunities and resources through a 1 to 1 notebook initiative as identified in district approved school technology plan.	Integration of mobile computing into the learning environment, constructivist/inquiry learning strategies, and online/digital resources	Student work improves and is completed on time, CBAs and rubric scores show an increase in understanding of concepts and processes	Identified staff in the 1 to 1 field test in content areas or grade levels, and Instructional Tech Staff	2007-2008 field test sites identified, wireless project initiated  2008-2010 Mobile computing expanded as supported through Tech Levy	HW: student notebooks, and carts, wireless systems SW: online resources purchased with home access TS: notebook support	HW: Tech levy, mobile carts (\$45,000/cart) SW: solutions noted above PD: Instruct. Tech Dept. Budget TS: General Fund
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<b>Technology Integration Goal:</b> Teachers engage technology in the teaching and learning cycle.						
<b>SMART Goal Statement:</b> Teachers will increase from 17% to 35% in Tier 2 and 3 as measured by the PILOT tool.						
<b>Strategy:</b> Instruction is collaborative and differentiated.						
<b>Rationale:</b> District strategic plan calls for personalized learning for all students.						
<b>Evaluation Procedure:</b> Data analysis of percentage of students at standard: Our expectation is to see an increase from 2007 to 2010.						
Activity/Task	Professional Development	Evaluation (Measurable Change)	People Involved	Starting and Ending Dates	Resources: Description / Type	Cost / Funding Source

<p>Teachers and students collaborate on assignments and projects during and outside the school day.</p>	<p>K-12 instructional staff receive PD on SharePoint Learning Kit.</p> <p>Staff receive training on Edprops for Culminating Project support</p> <p>Teachers receive continuing PD on differentiation.</p>	<p>Use of Edprops and SharePoint SLK increases, additional server data storage is needed</p>	<p>Teachers of grades K –12, Curriculum and Instruct. Technology Staff</p>	<p>2007-2008 field test sites identified, wireless project initiated</p> <p>2008-2010 Mobile computing expanded, Edprops and SharePoint SLK are implemented</p>	<p>HW: teacher and student notebooks, and carts, wireless systems</p> <p>SW:Edprops, SharePoint and online resources accessed from home</p> <p>TS: notebook support</p>	<p>HW: Tech Levy, mobile carts (\$45,000/cart)</p> <p>SW: Tech Levy, General Fund (as noted above)</p> <p>PD: Title V A, Title II D, Instructional Technology Dept. Budget (as noted above in student section)</p> <p>TS: General Fund</p>
<p>Teachers support and build student research/inquiry skills with a variety of tools.</p>	<p>K-12 instructional staff receive PD on Nettekker DI, information data bases, and Destiny</p> <p>10-12 Staff receive training on Turnitin for Scholarly Paper support</p>	<p>Usage data for Nettekker DI, databases and Turnitin increases</p> <p>Scholarly papers are original work</p>	<p>Teachers of grades K –12, Curriculum and Instruct. Technology Staff</p>	<p>2007-2008 field test sites identified, wireless project initiated</p> <p>2008-2010 Mobile computing expanded, Tiers PD implemented</p>	<p>HW: teacher &amp; student notebooks, and notebook carts, wireless systems</p> <p>SW: Turnitin, Nettekker DI, Destiny, Information databases</p> <p>TS: notebook support</p>	<p>HW: Tech Levy (as noted)</p> <p>SW: Tech Levy, General Fund (as noted)</p> <p>PD: Title V A, Title II D, Instructional Technology Dept. Budget (\$15,000)</p> <p>TS: General Fund</p>

**Strategy:** Instruction is driven by data.

**Rationale:** District strategic plan calls for implementation of powerful teaching and learning strategies.

**Evaluation Procedure:** Data analysis of percentage of students at standard: Our expectation is to see an increase from 2007 to 2010.

Activity/Task	Professional Development	Evaluation (Measurable Change)	People Involved	Starting and Ending Dates	Resources: Description / Type	Cost / Funding Source
Teachers access student formative and summative data to guide instruction.	K-12 Staff are trained to access and use data to make instructional decisions	Usage data increases on data warehouse, increased use of data points in Zangle	K-12 staff, Network Services, and Curriculum Dept.	2007-2008 Parent Connect, functional data warehouse 2008-2010 All staff use online data, K-5 reporting system determined	HW: data storage SW: data extraction software TS: data warehouse support	HW & SW: Tech Levy and General Fund (\$30,000) PD: Computer Services and Curriculum Dept. (\$5,000) TS: Gen Fund
Teachers collaborate in teams to develop common assessments and to use data to improve student learning.	K-12 Staff are trained to develop common assessments, access and use data to make instructional decisions	Usage data increases on data warehouse, Zangle, and SharePoint server	K-12 staff, Network Services, Curriculum and Instructional Tech Dept.	2007-2008 Early integrators training  2008-2010 all staff trained and using data	HW: data storage SW: data extraction software, SharePoint	HW & SW: Tech Levy and General Fund (as noted above) PD: Computer Services, Instructional Tech, and Curriculum Depts. Budgets (as noted above)

**Strategy:** Instruction is supported by relevant professional development.

**Rationale:** District strategic plan calls for implementation of powerful teaching and learning strategies.

**Evaluation Procedure:**

Activity/Task	Professional Development	Evaluation (Measurable Change)	People Involved	Starting and Ending Dates	Resources: Description / Type	Cost / Funding Source
Develop Tier Training structure to move teachers to Tier 2 and/or 3. Support Tier 3 teachers continued growth.	K-12 Staff receive a variety of PD opportunities aligned with the technology integration tiers, curriculum content, and learning strategies.	Increase in percentage of staff in Tier 2 and 3 as measured by the PILOT tool	K-12 staff, administrators, Instructional Tech and Curriculum Dept. Staff	2007-2010 ongoing training is developed and served addressing Technology Tiers	PD: Identify staff to provide professional development, HW: District mobile notebook lab and incentive model for staff	PD: General Fund, Title V A and Title II D (\$30,000/yr) TS: General Fund HW: notebook, document cameras, LCD projectors (\$2,500/staff)
Technology training specialist position created to assist in developing, planning, and training for skills and integration courses. Skills training responsibilities to be covered by Tech Levy funds and integration training responsibilities to be covered with funds through an Above Baseline Request (ABL).	Tech specialist receives training in Best Practices and technology coaching and integration strategies	Increase in percentage of staff in Tier 2 and 3 as measured by the PILOT tool  Principal observation data notes an Increased use of technology for instruction	K-12 staff, administrators, Instructional Technology Staff	2007-2008 develop model and determine appropriate staff 2008-2009 staff identified and program developed 2009-2010 Program implemented	HW: specialist has mobile solution which includes: notebook, document camera, LCD projector	HW: \$2,500 PD: Dept. of Instructional Tech Budget TS: General fund (ABL) and Tech Levy Fund to support tech specialist position (\$70,000/year)

**Strategy:** Digital learning resources support Instruction.

**Rationale:** District strategic plan calls for personalized learning for all students.

**Evaluation Procedure:**

Activity/Task	Professional Development	Evaluation (Measurable Change)	People Involved	Starting and Ending Dates	Resources: Description / Type	Cost / Funding Source
<p>Teachers access online learning opportunities to support students in acceleration, credit recovery, or content understanding.</p>	<p>6-12 staff are instructed on the use of online resources for students.</p>	<p>Increase in usage data for online subscription services.</p>	<p>6-12 staff, Network Services, Curriculum and Instructional Tech Dept. staff</p>	<p>2007-2008 field test sites identified, wireless project initiated  2008-2010 Mobile computing expanded, Tiers PD implemented</p>	<p>HW: teacher &amp; student notebooks, and carts, wireless systems  SW: AP Online, NovaNET, Cognitive Tutor, and other solutions TS: support</p>	<p>HW &amp; SW: Tech Levy and General Fund (as noted above)  PD: General Fund, Title V A and Title II D (\$30,000/yr)  TS: General Fund</p>
<p>Teachers infuse the learning environment with multi-media.</p>	<p>K-12 staff are instructed on the use of multi-media, production, and assessment strategies.</p>	<p>Number of video streams downloaded, use of video production equipment increases, and media appears in student portfolios.</p>	<p>K-12 staff, Network Services, Curriculum and Instructional Tech Dept. staff</p>	<p>2007-2008 Video server installed  2008-2010 video streaming service and video projects implemented</p>	<p>HW: digital video and still cameras, video production computers, video content and storage server SW: video editing and production software</p>	<p>HW &amp; SW: Tech Levy and General Fund (as noted above)  PD: General Fund, Title V A and Title II D (\$30,000/yr)  TS: General Fund</p>

<p>The instructional space is supported with visual and audio connectivity to cable TV, internet, and media formats.</p>	<p>K-12 staff are instructed on the use of visual and audio presentation systems.</p>	<p>Increased use of bandwidth and formatted media (DVD, VHS, CD, etc.)</p>	<p>K-12 staff, Network Services, Instructional Tech Dept.</p>	<p>2007-2008 specific classrooms identified for installation costs 2008-2010 develop plan and begin implementation</p>	<p>HW: LCD projector, computer, document camera, external speaker, cable/VCR unit, optional interactive whiteboard TS: wiring to support connectivity and power to ceiling mount projector</p>	<p>HW: Tech Levy (\$5,000/space including wiring, \$6,500/space for the optional interactive whiteboard)</p>
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**Technology Integration Goal:** The Community is connected with learning.  
**SMART Goal Statement:** There is an increase in District Web site access statistics, requests for district eNews and use of Parent Connect.

**Strategy:** District, school, and student data is shared.  
**Rationale:** The District Strategic Plan calls for community and family engagement in student learning.  
**Evaluation Procedure:** There is an increase in District Web site access statistics and use of Parent Connect.

Activity/Task	Professional Development	Evaluation (Measurable Change)	People Involved	Starting and Ending Dates	Resources: Description / Type	Cost / Funding Source
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District staff use SharePoint to communicate, collaborate, and share district, school, and student data as appropriate	District staff will receive PD on SharePoint and the use and sharing of data	Increasing amounts of appropriate data is shared, community surveys show increased information knowledge	All district staff involved in sharing information and data, School Information Dept.	2007-2008 solution designed and website moved  2008-2010 Staff trained and use SharePoint	SW: Share-Point 7.0 HW: Server space TS: Support of SharePoint server	SW, HW, and TS: Tech Levy and General Fund (as noted above)  PD: Title V A, Title II D, and General Fund (as noted above)
Teachers use Zangle for student data that parents may access.	Instructional staff will receive PD on Zangle Gradebook and assessment data	Increase in teachers using Zangle Gradebook and parents using Parent Connect	K-12 staff, Network and Computer Services	2007-2010 ongoing PD to move to 100% usage by staff	SW: Zangle HW: Server space TS: Support of Zangle services	SW, HW, and TS: Tech Levy and General Fund (as noted above)  PD: General Fund (as noted above)
<p><b>Strategy:</b> Procedures, policies and information are shared.</p> <p><b>Rationale:</b> The District Strategic Plan calls for community and family engagement in student learning.</p> <p><b>Evaluation Procedure:</b> There is an increase in District Web site access statistics and requests for district eNews.</p>						
Activity/Task	Professional Development	Evaluation (Measurable Change)	People Involved	Starting and Ending Dates	Resources: Description / Type	Cost / Funding Source

Parents and community members interact with district and school information and personnel.	Information access and location is shared at parent and community meetings.	increase in District Web site access statistics and requests for district eNews.	Community members, families and district staff	2007-2008 solution designed and website moved  2008-2010 Staff trained and use SharePoint	HW: district web server, dedicated SharePoint server,  TS: design and development of SharePoint	HW & SW: General and Tech Levy Funds (as noted above)
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**Strategy:** The Community is involved in technology planning.

**Rationale:** The District Strategic Plan calls for community and family engagement in student learning.

**Evaluation Procedure:** Community Advisory Team meets at least twice a year.

Activity/Task	Professional Development	Evaluation (Measurable Change)	People Involved	Starting and Ending Dates	Resources: Description / Type	Cost / Funding Source
A community technology advisory committee regularly provides input and feedback to the district technology staff and educates the community on educational technologies.	Briefing of purpose, roles, and responsibilities.	Advisory team meets twice a year or more and provides feedback.	Director appointed Community members and district staff	2007-2008 Membership identification, roles, and responsibilities determined. 2008-2010 Committee meets	Access to SharePoint site	NA
School Technology Teams meet twice yearly to review building plans and recommend revisions.	Briefing of purpose, roles, and responsibilities.	Team meets twice a year or more and provides feedback.	Building technology team	ongoing	Meeting time	Building level funding for time compensation (\$1,000/year)

<p>Community organizations collaborate and communicate to improve student and teacher access for academic purposes.</p>	<p>Build a knowledge base of options and systems</p>	<p>Communication &amp; collaboration between community organizations and systems increase.</p>	<p>Community members, public officials, higher education, and district technology staff.</p>	<p>2007-2010 ongoing</p>	<p>Planning and organizing solutions</p>	<p>Time for planning meetings. General Fund</p>
<p>The District provides open community access for school district purposes at selected buildings.</p>	<p>Staff assist presenters and parents during community surveys</p>	<p>Decreasing tech support for presenters, survey submissions increase</p>	<p>Community members, parents, presenters, and district technology staff.</p>	<p>2007-2008 Wireless system implemented 2008-2010 access available</p>	<p>HW: Wireless system is developed TS: manage wireless system</p>	<p>HW: Tech Levy (included in wireless project) TS: General Fund</p>