

**EDUCATIONAL TECHNOLOGY PLAN
FRUCHTHENDLER ELEMENTARY SCHOOL**

The Educational Technology Plan for Fruchthendler Elementary School embodies a dynamic process that enhances technologies to be effectively infused in our instructional programs based on the educational goals of the school, Tucson Unified School District, and the State of Arizona. This comprehensive plan demonstrates clear targets for technology use, guarantees equitable access, and provides a roadmap for building the infrastructure over the next three school years. Our Educational Technology Plan demonstrates the commitment of the entire Fruchthendler School Community to secure and use technology to prepare our students for the future.

PLAN TERM: Begins: June 2008 Ends: May 2011

LONG-TERM ROLE OF THE COMMITTEE:

The Fruchthendler Technology committee is made up of students, teachers, staff, parents, and administration from the Fruchthendler community, as well as Tucson Unified School District technology leaders. All staff members, parents, and community members were offered the opportunity to be a part of this committee. Members of the committee have volunteered their time. Initially, the committee visited several schools in the district to discover methods to effectively integrate technology into the curriculum, as well as the types of technology necessary to make this happen. The committee will share the plan with all stakeholders and listen to their suggestions and concerns. The committee will meet on a monthly basis next year to assess the impact and evaluate the progress of the plan. The Fruchthendler Technology Committee will continue to update the plan and to seek input from all stakeholders in order to ensure the successful implementation of the plan.

VISION AND MISSION STATEMENTS

TUSD Vision

Tucson Unified School District is a learning community that ensures every student has equitable access to technology to experience learning in a progressive technological environment. All students will have the vision and skills to compete in a global community.

Fruchthendler Vision Statement

In support of the TUSD technology vision, the goal of Fruchthendler Elementary School is to create an environment for all students, teachers, and staff to become technologically fluent and proficient. Our vision is to have technology become a seamless part of everyday classroom instruction. This will support, encourage, and reward students and teachers in the acquisition of technology skills, which are vital to becoming competitive and prepared for the challenges of everyday life.

Fruchthendler Mission Statement

Our mission is to provide a state-of-the-art informational technology environment for students, teachers and staff to support all facets of teaching, learning, and administering the school. Technology resources will help facilitate ongoing professional development for all teachers and staff; increase student achievement through the successful and seamless integration of technology throughout the curriculum; and empower students, teachers, staff, and the community to be productive participants and life-long learners in an ever-changing and competitive society.

GOAL 1: CURRICULUM INTEGRATION

Continue to improve student academic achievement through the use of technology at Fruchthendler Elementary School with a target of fully integrating technology into the academic curriculum.

Objectives for Curriculum Integration

1. Students and staff will use technology as a tool for communicating, creating, conducting research, gathering, recording, and displaying data using higher-level thinking skills strategies.
2. Students will create an electronic portfolio of student learning.
3. Students will develop the knowledge and skills to become ethical users of technology and to respect people's right of ownership of text, images, and sounds found on the Web.
4. Teachers will utilize data to analyze classroom curriculum and instruction.
5. Students will participate in authentic learning activities using computers in the lab, classroom, and library.
6. Technology opportunities will be extended to students receiving Special Education and English Development programs.
7. Students will practice Internet safety.

<u>Objective</u>	<u>Strategy</u>	<u>Accountability Measure</u>	<u>Timeline</u> (Task % Done /Year)
<p>1. Students and staff will use technology as a tool for conducting research, gathering, recording, and displaying data using higher- level thinking skills and strategies.</p>	<p>Existing Bandwidth:</p> <ol style="list-style-type: none"> 1. Authentic, integrated lessons aligned to state standards will be taught in the classroom, library, and computer lab. 2. Higher order thinking strategies such as, Traffic Light Thinking will be incorporated with SMART Board for writing tasks. 	<ol style="list-style-type: none"> 1. Teacher implementation will be assessed by administrator. 2. Teachers will complete a self-assessment measuring their technology and integration skills on a semester basis. 3. Evaluation of students' progress will be assessed using state technology standards. 	<p>Ongoing; quarterly; semester; yearly</p>
	<p>Increased Bandwidth:</p> <ol style="list-style-type: none"> 1. Teacher Resource Links available on Fruchthendler Website as Web Tools. Samples include the following... <ul style="list-style-type: none"> ○ <i>Podcasting</i> ○ <i>Video Streaming</i> ○ <i>Blogging</i> ○ <i>Response-O-Matic Survey</i> ○ <i>Survey Monkey</i> ○ <i>Buddymapping</i> ○ <i>Clustermapping</i> ○ <i>Intel Teaching Thinking Tools</i> ○ <i>Downloading/Uploading</i> 		

<p>2. Students will create electronic portfolios.</p>	<p>Existing Bandwidth:</p> <ol style="list-style-type: none"> 1. Students can create their own personal portfolio. 2. Students will learn how to upload documents to their portfolio page and link to those documents. 	<ol style="list-style-type: none"> 1. Teachers will monitor and evaluate students' portfolios based on state technology standards. 2. Student will self-evaluate their portfolios based on state technology standards. 	<p>Ongoing; quarterly</p>
<p>3. Students will develop the knowledge and skills to become ethical users of technology and to respect people's right of ownership of text, images, and sounds found on the Web.</p>	<p>Increased Bandwidth:</p> <ol style="list-style-type: none"> 1. Teacher Resource Links available on Fruchthendler Website as Web Tools. See samples, pg. 5 	<ol style="list-style-type: none"> 1. Teachers will monitor and evaluate students' portfolios based on state technology standards. 2. Student will self-evaluate their portfolios based on state technology standards. 	<p>Ongoing; quarterly</p>
<p>4. Teachers will utilize data to analyze classroom curriculum and instruction.</p>	<p>Existing Bandwidth:</p> <ol style="list-style-type: none"> 1. Students will be taught how to respect the property of others found on the Internet and on a file server. 	<ol style="list-style-type: none"> 1. Data will be shared in grade-level collaboration meetings. 	<p>Ongoing; quarterly; yearly</p>
	<p>Increased Bandwidth:</p> <ol style="list-style-type: none"> 1. Teacher Resource Links available on Fruchthendler Website as Web Tools. See samples, pg. 5 		
	<p>Increased Bandwidth:</p> <ol style="list-style-type: none"> 1. ATI-online 2. Making the Grade 3. TUSDStats-Writing Score Data Entry 		

<p>5. Students will participate in authentic learning activities using computers in the lab, classroom, and library.</p>	<p>Existing Bandwidth:</p> <ol style="list-style-type: none"> 1. Create and maintain a lab schedule. 2. Increase collaboration between classroom teachers and the librarian. 3. Develop strategies to effectively use one to seven computers in the classroom. 4. Use text-to-self; text-to-text; and text-to-world learning. 	<ol style="list-style-type: none"> 1. Student projects will be monitored and evaluated. 2. Usage of computers will be measured through the surveying of teachers and students. 3. Technology self -assessments will be given to teachers and students. 	<p>Ongoing; quarterly; yearly</p>
<p>6. Technology opportunities will be extended to students receiving Special Education and English Development programs.</p>	<p>Increased Bandwidth:</p> <ol style="list-style-type: none"> 1. Teacher Resource Links available on Fruchthendler Website as Web Tools. See samples, pg. 5 	<ol style="list-style-type: none"> 1. A needs assessment will be conducted to determine effective technology application. 	<p>Ongoing; yearly</p>
<p>7. Students will practice Internet safety.</p>	<ol style="list-style-type: none"> 1. Students will acquire knowledge and skills to practice internet safety (i.e., i-Safe) 	<ol style="list-style-type: none"> 1. Teachers will monitor and evaluate using available assessment tools, i.e. i-Safe. 	<p>Ongoing</p>

GOAL 2: PROFESSIONAL DEVELOPMENT

Ensure that teachers, staff, and administrators are proficient in the use and integration of technology through quality professional development activities.

Objectives for Professional Development:

1. Training will be made available to all teachers and staff to ensure technology is effectively integrated throughout the curriculum at all grade levels.
2. Teachers will collaborate and share projects, ideas, lessons, and other curricular materials related to the integration of technology into the curriculum.
3. Training will be provided so that teachers can develop strategies for effectively using one to seven computers in the classroom.
4. Training will be provided so that all teachers can create and maintain a web page.
5. Teachers will all participate in ethical use of computer training.

<u>Objective</u>	<u>Strategy</u>	<u>Accountability Measure</u>	<u>Timeline</u> <u>(Task % Done /Year)</u>
<p>1. Training will be made available to all teachers and staff to ensure technology is effectively integrated throughout the curriculum at all grade levels.</p>	<p>1. Technology Integration Training support provided by Educational Technology</p> <p>2. TUSD Classes offered by Educational Technology</p> <p>3. Creation of study groups</p> <p>4. IDEAL online courses.</p> <p>5. TUSD Summer Technology Institute.</p> <p>6. Data Analysis</p> <p>7. Systems Thinking training</p> <p>8. Training from TUSD's Professional Development Department</p> <p>9. Continue partnership with Pima County School Superintendent Office Technical Integration Specialists</p> <p>Increased Bandwidth:</p>	<p>1. Administrator review.</p> <p>2. Teacher-generated projects using technology.</p> <p>3. Fruchthendler Technology Blog used for tips, questions, and information.</p>	<p>Ongoing surveys at the end of each school year of the plan</p>
<p>2. Teachers will collaborate and share projects, ideas, lessons, and other curricular materials related to the integration of technology into the curriculum.</p>	<p>Existing Bandwidth:</p> <p>1. Wednesday PD "Tech and Take" Tips</p> <p>2. Fruchthendler Tech Blog</p> <p>3. Study Groups</p> <p>4. Intel Teaching Thinking w/Technology Tools</p> <p>Increased Bandwidth:</p> <p>1. Teacher Resource Links available on Fruchthendler Website as Web Tools. See samples, pg. 5</p>	<p>1. Teacher evaluation by administrator.</p> <p>2. Teacher self-evaluation.</p>	<p>Ongoing; quarterly; yearly</p>

<p>3. Training will be provided so that teachers can develop strategies for effectively using one to seven computers in the classroom.</p>	<ol style="list-style-type: none"> 1. Technology Integration Training Support provided by Educational Technology 2. TUSD Classes offered by Educational Technology 3. Creation of study groups 4. IDEAL online courses 5. TUSD Summer Technology Institute 6. Continue Waterford training 7. Continue Pima County School Superintendent Technology Support <p>Increased Bandwidth:</p> <ol style="list-style-type: none"> 1. Teacher Resource Links available on Fruchthendler Website as Web Tools. See samples, pg. 5 	<ol style="list-style-type: none"> 1. Usage of computers will be measured through the surveying of teachers and students. 2. Technology self -assessments will be given to teachers http://www.flinnovates.org/inventory/index.asp 	<p>Beginning at the start of the 2008-2009 school year</p>
<p>4. Training will be provided so that all teachers can create and maintain a web page.</p>	<ol style="list-style-type: none"> 1. All teachers and staff will receive additional training in the usability and design standards of webpage development software in order to facilitate the continued use of teacher class web pages and student constructed web pages. <p>Increased Bandwidth:</p> <ol style="list-style-type: none"> 1. Teacher Resource Links available on Fruchthendler Website as Web Tools. See samples, pg. 5 	<ol style="list-style-type: none"> 1. Teachers will update web pages based on standard agreed-upon expectations. 	<p>Ongoing</p>
<p>5. Teachers will all receive ethical internet safety training.</p>	<ol style="list-style-type: none"> 1. All teachers will receive appropriate training on Internet safety, and copyright issues. 	<ol style="list-style-type: none"> 1. All teachers will create lessons to teach appropriate ethical use, internet safety, and copyright issues. 	<p>Ongoing</p>

GOAL 3: EQUITY

Ensure that all K-5 resources are available for all students regardless of race, ethnicity, income, geographical location or disability, so they can become technologically literate by the end of eighth grade and achieve their academic potential.

Objectives for Equity:

1. Equitable access to technology will be provided during the school day.
2. Computers will be available for students before and after school.
3. Parents and community will be provided access through a school-sponsored event.
4. Technology training will be available for all teachers.
5. Technology training will be available for parents at the Regional Support Center.

<u>Objective</u>	<u>Strategy</u>	<u>Accountability Measure</u>	<u>Timeline</u> <u>(Task % Done /Year)</u>
1. Equitable access to technology will be provided during the school day.	Existing Bandwidth:	1. Teachers will assess equitable use by examining the computer log.	Ongoing; quarterly; yearly
	Increased Bandwidth: 1. Individual login and password usage 2. Computers in lab usage 3. Completion of technology projects 4. Sign-in charts		
2. Computers will be available for students before and after school.	Existing Bandwidth:	1. Teachers will check computer log for student usage.	Ongoing; quarterly; yearly
	1. Teacher Resource Links available on Fruchthendler Website as Web Tools . See samples, pg. 5		
3. Parents and community will be provided access through a school-sponsored event.	Existing Bandwidth:	1. Parents will complete an evaluation survey after the program.	Ongoing
	Increased Bandwidth: 1. Teacher Resource Links available on Fruchthendler Website as Web Tools . See samples, pg. 5		
4. Technology training will be available for all teachers.	Existing Bandwidth:	1. Teachers will complete an evaluation survey after the program.	Ongoing; yearly
	Increased Bandwidth: 1. Teacher Resource Links available on Fruchthendler Website as Web Tools . See samples, pg. 5		
5. Technology training will be available for parents	1. Regional Support Center.	1. Parents will complete an evaluation survey after the program.	Ongoing; yearly

GOAL 4: FINANCIAL

Develop a schema of current and future financing requirements to support Fruchthendler Technology Plan.

Objectives for Financial:

1. Purchase 17 Teacher workstations (laptops). The teachers will use the computers with the SMART Board tools (completed 05/08).
2. Purchase connectivity to wireless networking.
3. Purchase extra bandwidth to accommodate technology projects.
4. Purchase 80-95 additional computers for the classroom to accommodate a 1:5 ratio of computers-to-students. First Grade would use one computer for Waterford program for high-risk students.
5. Purchase 2 Student Response Systems for use with SMART Board.
6. Purchase 6 Macintosh computers for Technology Club or video production (50%Completed 05/08).
7. Purchase 4 document cameras to capture images and video for projection onto a SMART Board interactive whiteboard.

<u>Objective</u>	<u>Strategy</u>	<u>Accountability Measure</u>	<u>Timeline</u> <u>(Task % Done /Year)</u>
1. Purchase 17 Teacher workstations (laptops). The teachers will use the computers with the SMART Board tools (completed 05/08).	PTA Money	1. Completed surveys by students, parents, and teachers.	Ongoing; quarterly; yearly
2. Purchase connectivity to wireless networking.	Tax Credit Money Grants PTA Funds Technology Fundraisers Business Partnerships Donators TUSD Refresh	1. Completed surveys by students, parents, and teachers.	Ongoing; quarterly; yearly
3. Purchase extra bandwidth to accommodate technology projects.	Tax Credit Money Grants PTA Funds Technology Fundraisers Business Partnerships Donators TUSD Refresh	1. Completed surveys by students, parents, and teachers.	Ongoing; quarterly; yearly
4. Purchase 80-95 additional computers for the classroom to accommodate a 1/5 ratio of computers/student	Tax Credit Money Grants PTA Funds Technology Fundraisers Business Partnerships Donators TUSD Refresh	1. Completed surveys by students, parents, and teachers.	Ongoing; quarterly; yearly

<p>5. Purchase 2 Student Response Systems for use with SMART Board.</p>	<p>Tax Credit Money Grants PTA Funds Technology Fundraisers Business Partnerships Donators TUSD Refresh</p>	<p>1. Completed surveys by students, parents, and teachers.</p>	<p>Ongoing; quarterly; yearly</p>
<p>6. Purchase 6 Macintosh computers for technology club or video production. (\$6,000 contribution to purchase computers, 5/2008)</p>	<p>Tax Credit Money</p>	<p>1. Completed surveys by students, parents, and teachers.</p>	<p>Ongoing; quarterly; yearly</p>
<p>7. Purchase 4 document cameras to capture images and video for projection onto a SMART Board interactive whiteboard.</p>	<p>Tax Credit Money Grants PTA Funds Technology Fundraisers Business Partnerships Donators TUSD Refresh</p>	<p>1. Completed surveys by students, parents, and teachers.</p>	<p>Ongoing; quarterly; yearly</p>

TIMELINE OF IMPLEMENTATION

	Year 1	Year 2	Year 3
Connectivity	Use existing drops Purchase wireless networking Purchase extra bandwidth	Purchase extra bandwidth	Purchase extra bandwidth
Hardware	-Teacher laptops -Student laptops/desk computers -Student Response Systems -Macintosh computers -Document Cameras	-Student Response Systems -Macintosh computers -Document Cameras	-Student laptops
Software	Use existing Waterford site license Success Maker	Use existing Waterford site license Success Maker	Use existing Waterford site license Success Maker
Curriculum Integration	Authentic learning lessons aligned with state standards Instruction will support the school accountability plan Collaboration between teachers and librarian	Authentic learning lessons aligned with state standards Instruction will support the school accountability plan Collaboration between teachers and librarian	Authentic learning lessons aligned with state standards Instruction will support the school accountability plan Collaboration between teachers and librarian
Evaluation	Examine subtests from state assessments, TUSD Quarterly Writing Assessments, Quarterly Benchmarks, surveys from students, parents, and teachers.	Examine subtests from state assessments, TUSD Quarterly Writing Assessments, Quarterly Benchmarks, surveys from students, parents, and teachers.	Examine subtests from state assessments, TUSD Quarterly Writing Assessments, Quarterly Benchmarks, surveys from students, parents, and teachers.

Professional Development	-Lab utilization -Classroom management -Software application training and integration -Curriculum planning around test data -Integration of technology into the curriculum	-Lab utilization -Classroom management -Software application training and integration -Curriculum planning around test data -Integration of technology into the curriculum	-Lab utilization -Classroom management -Software application training and integration -Curriculum planning around test data -Integration of technology into the curriculum
Technical Assistance	-Network Technician -TTS -In-house resources	-Network Technician -TTS -In-house resources	-Network Technician -TTS -In-house resources
Software/Courseware	-Microsoft Office -TUSD Resources -Internet Resources -IDEAL Resources	-Microsoft Office -TUSD Resources -Internet Resources -IDEAL Resources	-Microsoft Office -TUSD Resources -Internet Resources -IDEAL Resources
Training/Conferences	-Study Groups -TUSD Summer Technology Institute -Teaching and Learning Conference -IDEAL -Educational Technology Classes -CCS classes/workshops -INTEL Courses	-Study Groups -TUSD Summer Technology Institute -Teaching and Learning Conference -IDEAL -Educational Technology Classes -CCS classes/workshops -INTEL Courses	-Study Groups -TUSD Summer Technology Institute -Teaching and Learning Conference -IDEAL -Educational Technology Classes -CCS classes/workshops -INTEL Courses

EQUITY MATRIX

(Check the box that applies)

	Few, if any have access	Access primarily in teacher work areas, offices, libraries, or computer labs	User has access to computer for individual use in classroom or office	Equitable Access
Administrators		X	X	X
Teachers (Core)		X	X	X
Teachers (CTE)		X	X	X
Teachers (Exceptional Education)		X	X	X
Teachers (electives)		X	X	X
Teachers (ELL)		X	X	X
Students		X	X	X
Non-certified staff		X	X	X

ACCOUNTABILITY AND EVIDENCE OF ACCOMPLISHMENTS

The technology committee will use the following evaluation strategies in order to ensure the success of the plan:

- Student, Teacher, and Parent Surveys.
- Grade-level designed projects incorporating rubrics that address Readiness, Foundations, or Essential levels of the Arizona Technology Standards.
- Interactive Staff-Development Journal posted on school Fruchthendler Technology Blog (<http://fruchthendlersmartboard.blogspot.com/>).
- Analyze test data from the Technology Benchmarks.
- 301 Goals can include technology focus.
- Publish technology news in the Fruchthendler web page, Firebird Footnotes, and classroom newsletters.