

Huerfano School District RE-1

ETIL Plan 2006-2009

VISION STATEMENT

An Information Literacy Skills program will be integrated into the curriculum of Huerfano School District RE-1. Students will be provided with access to and instruction in the effective and appropriate use of technology and information. Students will become life long learners who will evaluate, and use data to foster, support and communicate new ideas in a competent meaningful way.

This will be accomplished by:

- Providing adequate access to information technology in a variety of formats to students and faculty
- Utilizing information technology sources to support the curriculum and learning goals
- Providing staff development and materials to design and implement learning opportunities that use appropriate information technologies to enhance learning of the curriculum.
- Information Technology will become transparent and used as a tool during the normal course of instruction.

Introduction:

This is the comprehensive Technology Plan for the Huerfano School District RE-1 for the 06-07, 07-08, and 08-09 academic years.

Every effort is being made to bring the Huerfano School District RE-1 into the 21st century to facilitate a standards-based learning environment that complies with NCLB. To accomplish the goals to have all Huerfano School District RE-1 students become technologically literate and demonstrating mastery in the use of information technology in the classroom, Huerfano School District RE-1 will continue to make use of information technologies with the regular classroom instruction.

We, in the Huerfano School District, as well as the community at large, are concerned about ensuring that our children are academically prepared to succeed and compete as adults, be it as under-graduate or graduate students or as workers in their chosen professions. Students must have knowledge of and skill with existing and emerging information technologies. They must also have information in a variety of subject areas, utilizing as many available sources of information as possible. With these necessities in mind, we present our technology plan for the Huerfano School District RE-1.

ET-IL Committee:

- Dr. David Gray, Superintendent
- Julia Marchant, Patricia Martinez, Paul Heesaker – Building Principals
- Gery Di Domenico, Technology Director
- Manuel Lujan, Information Technology Specialist
- Sandra R. Vigil, Information Systems Specialist
- Eugene Kelly, Technology Instructional Assistant-PK-6
- Jody Medina, Teacher/ Technology Instructional Assistant-PK-8
- Monaca Kirby, Master of Library Science

Needs Assessment:

The Past and Present:

Huerfano School District RE-1 has made considerable progress with the integration of technology to improve student achievement.

We have integrated the use of Alpine Achievement Systems for the disaggregation of CSAP data to bring back into the classroom in a meaningful way. We have our Information Systems Specialist assist teachers with this information. We are also utilizing Alpine to create ILP's beginning with a student profile generated in their Kindergarten year.

NWEA testing has been implemented to provide assessment data in reading, language and math. The data is available within 24 hours of testing and can be utilized to make any necessary mid course changes to curriculum to address weaknesses in student learning.

We have hosted an Intel Teach To The Future program with nine teachers from the district, who have successfully completed the program and are implementing ideas into their curriculum.

We have hosted building workshops to address the technical needs of administration and teachers.

We have successfully deployed PowerSchool (a student information system) into our district for administration purposes and are now providing parental and student access to the student's progress.

With ERATE assistance, we have built a thorough technology infrastructure district wide including voice and data drops in every classroom.

With continued E-rate assistance, we have provided T-1 (1.54 Mbps) broadband access and will soon be providing bonded T1 (3 Mbps) access for the entire district

The district currently has an approximate student/computer ratio of 2.5:1.

The Future:

Since we have made considerable progress with our technology infrastructure we will now focus more intensively with professional development issues to make technology transparent.

We will use tools such as those provided by ProFilerpro.com to develop surveys and assessments for Administrators, Teachers and Students. Beginning with teachers completing a self-assessment of their knowledge and skill level with information literacy, the technology staff will collect this data to provide comprehensive professional development in the form of monthly workshops.

The technology staff has and will continue to research internet resources in math, reading and science and will provide the necessary individual one-on-one training for teachers to successfully integrate these resources into their classrooms.

We would like to increase our student/computer ration to 2:1.

B. Goals and Strategies

a.

- The emphasis will be placed on professional development to promote the integration of information technology within the classroom and to make the technology transparent.
- Teachers will be trained to train other teachers with the use of Alpine, NWEA, Microsoft Office applications, and other assessment instruments and technologies.
- The district has and will continue to increase course offerings through CCC Online college courses and COL Online courses and other potential course delivery systems.
- The district will continue to support and facilitate collaborative technology-enriched learning environments conducive to innovation for improved learning, decision making and help enhance higher-level thinking and use of technology. (School admin tech standards (partially combined)...))
- The district will continue to promote and enforce privacy, security and online safety practices for all staff and students.

b.

- Funds and E-rate discounts will be utilized to supplement the cost of broadband connectivity to the school to increase access to information in order to improve the academic achievement, and technology literacy of all students.
- E-rate funds have been utilized to build the local area network infrastructure providing seamless communications throughout the district.
- E-rate funds are utilized to supplement the cost of telephone services in order to increase communication with parents and other community members.
- District funds are available for staff development.
- District funds are sufficient and available for infrastructure support.

*see attachment A for some feedback from teachers of how our "Intel Teach to the Future" program helped them in the classroom.

c.

- Create collaboration between the Huerfano SD RE-1, The Spanish Peaks Library District and Crossroads Managed Care, to form The Huerfano County Consolidated Literacy Program (HCCLP). The goals of the HCCLP are:
 1. create a collaboration to improve literacy in the community
 2. create a web-page for literacy information and resources
 3. promote parental involvement
 4. combine inventory and resources

d.

- The district currently has a healthy 2.5:1 student/computer ratio that we would like to increase to a student/computer ratio of 2:1. This will occur when we Implement portable laptop labs.
- Through the collaborative efforts of HCCLP, the school and public libraries will be open for parent/guardian/student use throughout the summer and after school.
- The 21st Century Grant provides money for the Out of School Time program and enables the computer labs to be open for K through 3rd grade one night a week and 3 nights a week for 4th through 6th grade students within the district.
- At the high school we are moving towards wireless supplementation of our existing infrastructure to assist with the digital high school philosophy. Four Smartboards were placed in service at the high school to encourage teachers to use technology to enhance their delivery of lessons in the content areas - science, math, english and history. Through professional development, teachers will be taught how and when to integrate the use of

technology into their normal content area lessons and by example will encourage technology use to expand into more classrooms.

- Through comprehensive staff development and technology conferences, teachers will become motivated to acquire new technologies to enhance classroom instruction.
- Research the next technology innovations for future implementation.

e.

- 8th grade students will complete a multidisciplinary project during the month of February that will combine the integration of technology in a variety of ways including research, development and presentation. Their level of technology literacy will be accessed using rubrics which are based on the Colorado State Standards for the use of technology by students.
- Students will be able to select the appropriate technology tool to gather, analyze, and organize information in order to present their research professionally and accurately.
- Students demonstrate technology literacy in class projects utilizing spreadsheets, word processors, presentations, video editing and various other software and hardware tools.
 1. Classroom assignments correlate with projects completed in the computer lab(s). Therefore, planning of classroom projects involves input from both the classroom and technology teacher to create a final project.
 2. Communication is done to provide challenging projects to the students that integrate technology in a meaningful setting.
- Students start in Pre-K utilizing the computer lab and/or classroom computers with various programs to supplement core subject areas including math, reading, history and language skills. By the 4th grade level all students are and will continue to utilize the Internet through teacher guided research.

f.

- PowerSchool has the ability to email grades, attendance, school announcements and fee information to parents/guardians on a daily, weekly or bi-weekly basis.
- Parents/guardians/students have 24-hour access to information via the PowerSchool website and the district website.
- Teachers are able to post assignments to increase the awareness for parents, guardians and students.
- School Messenger integrated with PowerSchool, is utilized at two schools in the district to notify parents/guardians of absences and other general school announcements.
- I-SAFE other technology/Internet safety training for teachers, students and parent/guardian.
- Coordinate with PTO/PTA to organize I-SAFE trainings for parent/guardians and provide training to parents/guardians and students to encourage access PowerSchool and other district resources.

C. Collaboration and Integration

The District will collaborate with The Spanish Peaks Library District (SPLD) and Cross Roads Family Services to create The Huerfano County Consolidated Literacy Program to combine the resources of the school district, the library district and other local entities.

Through the use of PowerSchool, the student would be able to provide the library staff with their Lexile score obtained through NWEA testing in order to better meet the needs of the student. The District will utilize Monica Kirby who holds a Masters in Library Science, to better facilitate community involvement.

Teachers will utilize technology as part of classroom instruction and continue to schedule time for more technology integration into their lesson plans.

Students will use technology to research, complete and enhance classroom projects.

D. Professional development

- TIE conference is usually held during the last week of June, 4 days at \$650.00/teacher for at least one teacher from each grade level in each building.
- Set a training date at the beginning of the 06-07 school year for teachers to develop ILP's using Alpine.
- Set dates to train teachers how to utilize NWEA data to make instructional adjustments.
- Hold at least one Friday per month training based on the needs assessment surveys; we will provide Staff Development Workshops on Technology needs.
- Intel Teach to the Future teaching teachers how to integrate and develop effective uses for technology into the classroom.

E. Technology infrastructure and support

- Huerfano School District RE-1 has a very complete infrastructure due to the use of E-RATE funds in previous years and a Superintendent who was very supportive of infrastructure.
- Our schools are completely wired with at least 5 - 100 base-T LAN connections in every classroom.
- Every building has at least one state of the art computer lab to facilitate larger instructional groups. The high school has a lab dedicated to online instruction where we utilize the Colorado Online Learning program to expand our course offerings.
- We also have a specialized math lab serving grades 7 through 12.
- Our schools are interconnected via a wireless WAN which at this point provides between 3 and 8 Mbps of bandwidth to each building for interconnectivity and interoperability.
- We have a technology team consisting of a Director, an Information Systems Specialist, and an Information Technology Specialist for district wide support.
- At each building we have a Lab Facilitator/Technology Assistant to assist teachers and administration with immediate instructional needs.

F. Policies and procedures

- Huerfano School District RE-1 maintains a managed subscription for internet content filtering which meets CIPA requirements.
- We have approved board policies and acceptable policies for staff and students regarding the acceptable use of our LAN and internet resources. All board meetings are open to the public.
- We are implementing a plan to keep technology equipment up to date.
- We have determined the useful life of a PC to be approximately seven years.
 1. A computer that reaches maturity will be removed from our inventory and replaced with concurrent technology.
 2. Even though computers are removed from inventory we place them into classrooms if they can still provide educational services.
- Every effort is being made to keep the Huerfano School District concurrent with state of the art equipment and procedures.

G. Budget

See ET-IL Technology Plan Budget attachment

H. Evaluation plan

a.

The technology team will meet on a quarterly basis to discuss and arrange workshops for staff development and on an annual basis to evaluate the plan for the following year.

b.

Follow up on monthly trainings

Require the teachers to submit a lesson plan for at least one project in the classroom that involves the skills and the technology presented in their training.

Dibbles an electronic assessment tool (software) utilizing a PDA has been purchased for every teacher in grade levels 4 through 6 to assess students in reading.

Utilize NWEA data and other electronic tools such as the "student clicker" for immediate feed back from assessments to be applied directly in the classroom.

Teachers are graphing class data from periodic assessments in reading and math. Some teachers now have students graphing their own data to set goals and show improvement.

ET-IL Technology Plan Budget

Name of District :	Huerfano School District Re-1
Technology Director:	Gery DiDomenico
Superintendent:	Dr. David Gray

* Cells will wrap for large descriptions

Service or Function *	Category	Quantity/ or Capacity	Total Pre-Discount Amount	Expected E-rate Discount Rate (%)	District Funding Source	Total E-rate Expected Discount	Total Amount for District Responsibility
Column Sum:			\$ 109,308			\$ 39,190	\$ 70,118
Mimio XI Interactive	Hardware	6	\$ 4,788		General Fund	\$ -	\$ 4,788
Servers/Windows	Hardware	2	\$ 16,219		Cap Reserve	\$ -	\$ 16,219
Daktech Computers	Hardware	25	\$ 25,000		Cap Reserve	\$ -	\$ 25,000
Memory upgrades	Hardware	25	\$ 2,500		General Fund	\$ -	\$ 2,500
OSX 10.4 Server	Software	2	\$ 1,000		General Fund	\$ -	\$ 1,000
Email/Web Server	Maintenance Contract	1	\$ 500	77%	General Fund	\$ 385	\$ 115
Training - Alpine	Professional Development		\$ 1,400		Title IID Funds	\$ -	\$ 1,400
Training - NWEA	Professional Development	In House				\$ -	\$ -
TIE - Conference	Professional Development	Per Person	\$ 650		Title IID Funds?	\$ -	\$ 650
Wireless Routers	Hardware	10	\$ 1,000		General Fund	\$ -	\$ 1,000
MicroSoft Office	Software	50	\$ 3,100		General Fund	\$ -	\$ 3,100
Gardner Wireless Upgrade	Hardware	1	\$ 2,000	77%	General Fund	\$ 1,540	\$ 460
Educational Software	Software	Site Licences	\$ 2,000		General Fund	\$ -	\$ 2,000
Verizon wireless	Telecommunications	11	\$ 4,740	77%	General Fund	\$ 3,650	\$ 1,090
Zero Error Networks	Internet Access	56K	\$ 180	77%	General Fund	\$ 139	\$ 41
CenturyTel	Telecommunications	4	\$ 3,000	77%	General Fund	\$ 2,310	\$ 690
Qwest	Telecommunications	27	\$ 21,156	77%	General Fund	\$ 16,290	\$ 4,866
MCI	Internet Access	1.5Mb	\$ 10,332	77%	General Fund	\$ 7,956	\$ 2,376
Network Services Solutions	Internet Access	3Mb	\$ 8,988	77%	General Fund	\$ 6,921	\$ 2,067
WebCoast2Coast.net	Internet Access	56K	\$ 755		General Fund	\$ -	\$ 755
						\$ -	\$ -

Some feedback from teachers of how our "Intel Teach to the Future" program helped them in the classroom:

ETIL Committee,

I really enjoyed the Intel Teach to the Future Class - My new assignment as Online Coordinator gave me many chances to use the information presented in the class. There was any number of times students were to present materials in a format (i.e. Power Point) that they were not used to. I was able to use the materials from the course to help the students.

The Online courses and high school schedules quite often did not match and I was able to use the materials from the course to create lesson plans that were educational to the students. (i.e. Create a Power Point or Publisher document about the college choices.)

Because of the above I am now more confident in taking students into the computer lab and expecting that they do more than just "surf the net".

Thank you,
Gary D Bradberry

I was able to have my students create a power point presentation this year as a culminating project for research. We also used the web for historic newspapers, etc. When I have the computer room available, it is a wonderful tool in the classroom.

Teresa Darnell England

Last year after the Intel class I had my Title I students make a Power Point on comparing and contrasting TV and the newspaper. This year I have used the drop down boxes in making my reports for 2nd grade and using Excel for my Title I forms. I have found the class was very helpful in making the forms.

Marilyn Kelly
