

## *2009-2012 Rutland Educational Technology Plan*

**Local Goal 1:** Student Centered Learning

The district will increase the number of classrooms utilizing 21<sup>st</sup> century tools regularly and effectively: 10% by year 1, 20% by year 2 and 30% by year 3.

Action Step	Description	Staffing	Infrastructure	Budget	PD	Y1/Y2/Y3	Data Collection
<p>1.1 <b>Technology:</b> Purchase of appropriate technology to develop student centered classrooms.</p>	<p>Continue the deployment of interactive whiteboards and other student-centered technology in k-12.</p>	<p>Technology teachers and network staff.  Additional network staff person.</p>	<p>Interactive whiteboards, classroom computers, netbooks, and other emergent technology tools.  Wireless access preK-12 and STC.  Fiber PreK-12 and high speed internet.</p>	<p>\$100,000 for equipment, Internet connectivity and summer professional development annually. This is approximately what we budget annually.  \$60,000 network staff person. This is a new position and was suggested to the board in FY09. The position was cut during budget negotiations.</p>	<p>Before, after school and summer professional development. Some just in time assistance. There will be a focus on open source, SMARTboards, SIS, and Web 2.0.</p>	<p>Y1, Y2, Y3</p>	<p>The number of classrooms with regular access to student centered –technology such as interactive whiteboards, classroom computers and netbooks.</p>

Action Step	Description	Staffing	Infrastructure	Budget	PD	Y1/Y2/Y3	Data Collection
<b>1.2 Standards:</b> Communication and focus on appropriate technology standards preK-12.	Develop technology power standards based on the VTGLEs, NET-S and 21 <sup>st</sup> Century skills.	School-Year Committee			Professional development to learn how to develop power standards.	Y3	Teachers integrate technology power standards into the curriculum. This is visible in lesson plans and during teacher observations.
<b>1.3 Learning Resources:</b> Create training and support resources for teachers as they deploy student centered classrooms.	Technology integrationists and building coaches will be designated in each school to promote and support student centered learning. Tech integrationists serve as resources and experts by guiding teacher integration and providing support in the form of know-how, equipment use, technical problem solving.  Technical staff will create infrastructure such as network access, servers, software and tools.	Technology integrationist K-6  Technology integrationist 7-12  Director of Instructional Technology  Technical and network staff.  Interns		\$5,000-\$7,000 in teacher stipends for work in the summer and after-school.	Conferences such as VermontFest, Dynamic Landscapes and other technology professional development opportunities.  District-wide professional development.	Y3	Designation of building level and teacher coaches for Infinite Campus and other specific school based resources.  Redesign and expansion of technology teacher positions into integrationist positions in grade 3-8.

**Indicators of Success for this Goal:** Teachers design student-centered instruction using the growing number of 21<sup>st</sup> century technologies made available throughout the district.. Power standards clarify appropriate standards and expectations for student learning so that students are asked to communicate ideas, collaborate with others, analyze data, problem-solve and construct new knowledge using 21<sup>st</sup> century technology tools. Teachers participate in professional development opportunities available both in house and at conferences so that they are prepared to teach with new technology and understand how it contributes to a student-centered classroom.

**Local Goal 2: Leadership in a Student-Centered Learning Environment**

As 21<sup>st</sup> Century Leaders, school administrators will continue to expand their knowledge of technology by participating in technology professional development: 10% of administrators will take a technology course or attend a technology conference in year 1, 20% by year 2 and 30% by year 3. They will demonstrate their skills in a variety of setting and for different purposes such as communication, data-driven decision-making (DDDM), productivity and teacher support, growth and evaluation. Teachers and students will be involved in leadership, teachers through DDDM and students by participating in technology decision-making.

Action Step	Description	Staffing	Infrastructure	Budget	PD	Y1/Y2/Y3	Data Collection
<p><b>2.1 Administrative Leadership:</b> Modeling of 21<sup>st</sup> Century Skills for the learning community.</p>	<p>School administrators will model the use of technology during faculty meetings, and in other professional settings.</p>	<p>Central Office, pre k-12 principals and other administrators.</p>		<p>\$5,000 annually. This would not be new money, principals would be making different choices in their professional development.</p>	<p>Principals will participate in technology professional development through the district, colleges, and VITA-Learn.</p>	<p>Y1, Y2, Y3</p>	<p>Number of school administrators completing technology course or attending technology conferences.</p> <p>Number of administrators using 21<sup>st</sup> century tools for meetings, collaboration and communication.</p>
<p><b>2.2 Administrative Leadership:</b> Creating a student centered learning environment.</p>	<p>School administrators will plan and deploy building technology with an emphasis on student-centered learning environments and 21<sup>st</sup> century skills.</p>	<p>Central Office, pre k-12 principals and other administrators.</p>	<p>Interactive whiteboards, classroom computers, laptops, and other emergent technology tools. High speed internet and fiber.</p>	<p>See budget in Goal 1, Action step 1. These are related.</p>		<p>Y1, Y2, Y3</p>	<p>The number of classrooms with regular access to student centered – technology, such as interactive whiteboards, classroom computers and laptops.</p>

Action Step	Description	Staffing	Infrastructure	Budget	PD	Y1/Y2/Y3	Data Collection
<b>2.3 Leadership for Data-Driven Decision-Making</b>	School administrators and teachers will use the new tools available in Infinite Campus (IC) for DDDM and school improvement. Data will become more available for PLCs through the new student information management system.	Central Office, pre k-12 principals and other administrators, teachers.		\$32,000 per year for licensing, hosting and management of IC.	Role based professional development.  A small number of administrators attend IC conference.	Y1, Y2, Y3	Number and type of reports generated in IC by administrators.
<b>2.4 Student Leadership:</b>  Students will participate in technology planning and decision-making through their roles as district interns, committees and school based opportunities.	High school and college technology interns will contribute to the day in and day out management of network resources. Other students will serve as sounding boards and contribute to content and instructional design.			\$7,500 in intern stipends. In Y1, we will hire three student interns.		Y1, Y2, Y3	Student hires.  Committee minutes.  Student surveys.

**Indicators of Success for this Goal:** Principals and other school administrators participate in the district sponsored summer technology institute for school administrators. Year 1 focuses on tools for productivity while Year 2 examines classroom observation and the types of technology integration principals should develop in their school building. Other avenues for professional growth include conferences, college courses and ongoing local professional trainings. Data from the student information management system becomes a basic resource for PLCs. Students participate in the management of technology resources, contribute to the web page, wikis, blogs, and more. Students provide feedback, suggestions and contribute to decision making about their learning environment.

**Local Goal 3: Flexible Learning Environments**

The school district will work to remove both time and location as elements that limit student learning to a building and school day structure. Through the use of our website, courseware, blogs, wikis and the IC parent/student portal the district will provide access to information and opportunities for student learning 24/7.

Action Step	Description	Staffing	Infrastructure	Budget	PD	Y1/Y2/Y3	Data Collection
<p><b>3.1 24/7 Access to Learning</b></p>	<p>The school district will provide technology resources to extend the school day beyond the physical classroom environment.</p>	<p>Pre-K to 12 educators, staff and school administrators.</p>	<p>District website, blogs, courseware, web based instructional video, wikis, and other 21<sup>st</sup> Century resources.</p> <p>Expand fiber to include both preK-2 buildings.</p>	<p>\$16,000 for webpage hosting and software.</p>	<p>Professional development for the website software as well as new and emergent technology.</p>	<p>Y1, Y2, Y3</p>	<p>Web analytics provided by the website vendor. The website is the most common entry point for access to web-based student resources.</p>
<p><b>3.2 Real-Time Data</b></p>	<p>The school district will provide our students with access to grades, assignments, attendance, and other information via the IC web portal.</p>	<p>Registrar and other data team members.</p> <p>Network administrator.</p>	<p>Infinite Campus</p>	<p>\$32,000 per year for IC licensing fees, hosting and management.</p>	<p>Professional development for teachers and system administrators for deploying the IC web portal.</p>	<p>Y2</p>	<p>Web analytics provided by the IC software.</p>

Action Step	Description	Staffing	Infrastructure	Budget	PD	Y1/Y2/Y3	Data Collection
<b>3.3 Policy:</b> Redevelop and review policies to attend to changes in technology.	Explore the role of cell phones, MP3 players and other portable devices in our learning environment.  Continue the education of students about safety and responsibility when using digital tools.	Committee	Wireless preK-12	\$5,000 in wireless access points.	Local professional development which demonstrates how to deploy untapped technology in the classroom.  Professional resources on student safety.	Y3	Evidence of use in teacher lesson plans.

**Indicators of Success for this Goal:** Students and teachers engage in a teaching and learning model which is collaborative, communicative and takes advantage of existing, new and emergent technologies. Students and educators take advantage of the vast array of resources available on the web. Policies reflect current issues and concerns, while also leveraging the amazing power of technology in the classroom.

**Local Goal 4:** Engaged Community Partners

The school district will engage community partners through the district web page, wikis, blogs, video conferencing and the Infinite Campus SIS parent portal.

Action Step	Description	Staffing	Infrastructure	Budget	PD	Y1/Y2/Y3	Data Collection
<b>4.1 Stakeholder Communication</b>	The school district will take advantage of the power of an enterprise solution, student information management system by deploying a parent portal for communication and utilizing data analysis tools to engage the community in district data.	Registrar and other data team members.  School administrators.	Infinite Campus	\$32,000 per year in software licenses.	Professional development for teachers and system administrators for deploying the IC web portal.  Professional development of data tools.	Y2	Web analytics provided by the IC software.
<b>4.2 Families, Alumni, Community</b>	Expand the use of our current website to include more resources for student, family members and the community.	PreK-12 educational community.	WordPress open source software.  Web hosting services.	\$10,000 per year for hosting, calendars and professional service. This would be an expansion of our current model.	District professional development each year for faculty, staff and administration.	Y1, Y2, Y3	Web analytics data provided by web hosting service.

Action Step	Description	Staffing	Infrastructure	Budget	PD	Y1/Y2/Y3	Data Collection
<b>4.3 Collaboration with Outside Resources</b>	Leverage our internet access and the LNV to bring experts and other outside resources into classrooms.	PreK-12 educational community.	LNV, fiber and internet access.	\$20,000 per year in high speed internet, and hardware. This is in the existing budget.	District professional development each year for faculty and staff.	Y1, Y2, Y3	Evidence of broader communication with experts and other classrooms in teacher lesson plans.

**Indicators of Success for this Goal:** Students and teachers will utilize the power of 21<sup>st</sup> century tools to communicate, collaborate and interact with the community, other learners and experts in order to build new knowledge, analyze data, and problem-solve. The learning community and wider community will take advantage of the resources published by the district to the web.

## *Committee Members*

### Names and Titles of Technology Planning Committee Members

Jack Adams, Technology Teacher, RMS

Patricia Aigner, Director of Instructional Technology, RCPS Central Office

Steve Briggs, Technology Teacher, Stafford Technical Center

Cathy Farman, Technology Teacher, RIS

David Townsend, Community Member

Joe Tucker, ESL Teacher, RHS Technology Committee Representative

Jane Williams, Literacy Coach, k-2

## Evaluation of 2006-2009 Technology Plan

### GOAL 1.1

#### Statement of Goal:

To acquire and support up-to-date information technology that will be used by faculty and staff, students, parents and community members to utilize the full dimension and benefits of the latest in communication and information technology including age appropriate access to Internet information.

#### 1.1 Access and Infrastructure

As part of the annual budget process, plan for the acquisition of needed hardware, software, Internet services and other related technologies.

#### This Goal's Performance Indicator:

- Integration Specialists, Building Principals and Technology Director meet early in the process to begin planning Technology Director will meet with the Finance Director and Superintendent to consolidate needs.
- Purchase requests will be reviewed and approved by the administration.
- Technology Committee to meet on a regular basis to monitor needs

## Evaluation of 2006-2009 Technology Plan

### GOAL 1.1 continued

Summary of Current Performance (Findings) Relative to this Goal:

These activities have occurred as suggested. Rutland has done an excellent job leveraging resources so that instructional technology is moving forward in a positive manner.

List of Data Sources that Support this Finding:

The key planners meet once a month. They selected a new web page platform, SIS, SMARTboard deployment, and redesign of the fiber/network to support student learning and internet access.

## Evaluation of 2006-2009 Technology Plan

### GOAL 1.2

#### Statement of Goal:

To acquire and support up-to-date information technology that will be used by faculty and staff, students, parents and community members to utilize the full dimension and benefits of the latest in communication and information technology including age appropriate access to Internet information.

#### 1.2 System and Community Support

Continue to utilize a wide range of technology tools to communicate to parents and the community.

#### This Goal's Performance Indicator:

1. Use of public access TV for Board meetings, athletics and special events
2. Expand the use of K12 Planet RHS and RMS
3. Work to improve and expand the district website
4. Expand the use of email to increase communications with parents.

#### Summary of Current Performance (Findings) Relative to this Goal:

This is an area where the district excelled. Public access was widely used, including 3-4 information spots about the district each month this year. K12 Planet, a parent portal was expanded to the RMS and the district webpage had an exciting face-lift this year.

## Evaluation of 2006-2009 Technology Plan

### GOAL 1.2 continued

List of Data Sources that Support this Finding:

Data that supports this include CDs and listing of RPS events and board meetings at PEG-TV, the number of parents accessing the K12 Planet, the new district website available at <http://rutlandcitypublicschools.org/>, and the widespread use of mail in the district for communication with stakeholders.

## Evaluation of 2006-2009 Technology Plan

### GOAL 1.4

#### Statement of Goal:

To acquire and support up-to-date information technology that will be used by faculty and staff, students, parents and community members to utilize the full dimension and benefits of the latest in communication and information technology including age appropriate access to Internet information.

#### 1.4 Technical Support

Provide adequate hardware and software support to end users

#### This Goal's Performance Indicator:

1. Expand District Tech Support team
2. District Tech Support team available to all staff

#### Summary of Current Performance (Findings) Relative to this Goal:

This is a goal where the district is struggling due to budget constraints. In FY09, an additional technical support position was proposed to the school board. It did not survive the budget cuts. Unfortunately, this leaves us with a ratio of 500+ machines:1 employee including computers, servers, network hardware, filters, email, backups and a student information system. Technicians do their best to respond in a timely manner to teacher requests; however, this is not the best way to support the growth of 21<sup>st</sup> Century Skills in our classroom. Response to technical requests resembles triage in the emergency room, and good planning and project management deadlines slip due to unexpected issues like viruses.

List of Data Sources that Support this Finding: The ratio of computers to machines is 500:1 technician.