

**RAPID CITY CATHOLIC SCHOOL SYSTEM
TECHNOLOGY PLAN
3 YEAR PLAN**

Missions Statement: The learning communities of the Rapid City Catholic School System will be technologically literate life-long learners. Learners will be challenged and guided to interact successfully in a technological environment to achieve personal, educational, and professional goals. Through technology, learners will promote the mission of our Catholic schools to spread God's word, build community, and be of service.

District Information: RCCSS is a Diocesan school serving the West River Diocese of South Dakota. The school district is comprised of St. Elizabeth Seton Elementary and Middle School, and St. Thomas More High School. The school district also has a Preschool, Enrichment and Before- and After-school program. Enrollment in all grade levels and programs averages 800 students.

Technology Committee: The major tasks assigned the RCCSS Technology Committee are (1) ongoing development of the district technology plan, (2) provide guidance and direction for technology development in the district, and (3) provide recommendations pertinent to grade level, field or job related technology needs. Current committee members included: Barb Honeycutt, Superintendent; Colleen Lecy, Elementary Principal; Keiz Shultz, Middle School Principal; Wayne Sullivan, High School Principal; Tami Dewes, Technology Coordinator; Theresa Palmer, Middle School Technology Teacher; Kristy Ward, Elementary Technology Teacher; Derek Bissinger, High School Technology Teacher, Carissa Naasz, Elementary Teacher, Cecily McMacken; Elementary Teacher; Jesus Garcia, Middle School Teacher; Jeff Pekny, Middle School Teacher; Chad Grahek, Community Representative; Rich Raposa, Parent Representative; Joe Rinehart, Community/Contracted Services Representative

District Technology Goals

1. Increase student achievement through the use of technology
2. Build capacity for 21st century skills in staff and students
3. Increase the level of technology integration among staff and students
4. Advance development of system wide integration programs
5. Members of RCCSS will be ethically responsible, technologically literate, self-directed, life-long learners

I. Improving Academic Achievement and Teacher Effectiveness

Goal 1: Improve student academic achievement through data-driven decisions that affect changes to curriculum.

Objective	Activity	Timeline	Projected Cost	Category and Source of Funding	Evaluation
Curriculum Mapping	Finish core maps Begin diary mapping lessons into core maps Continue to vertical map and read-through	2009-10 2009-10 Ongoing	\$1,560/yearly subscription	Operating budget	End-of-year assessment
Data Retreat	2009-10	Contracted with TIE	\$1500	Title Grant	Use student data results to evaluate
Edline	Teacher training to utilize all aspects of Edline	2009-10, ongoing	\$2900/yearly subscription	Operating Budget	Evaluation of teacher Edline web pages
Achievement Series/DACS Testing Teacher Training	Train teachers on administering tests and utilizing results	2009-10, ongoing	(\$750 – provided in-house by staff)		Documentation of utilization of testing results

II. Professional Development

Goal 1: RCCSS staff will meet the 21st Century Technology Standards in Professional Development

Objective	Activity	Timeline	Projected Cost	Category and Source of Funding	Evaluation
Establish basic, proficient and advance technology skill levels for staff technology competency	Technology committee will research and establish basic (level 1) technology skills	Year 1	(\$200 = in house)		
Pass basic (level 1) technology skills competency test or complete basic (level 1) technology skills competency course	RCCSS will provide basic (level 1) technology skill training. RCCSS will administer staff testing for basic (level 1) achievement	All staff will complete basic (level 1) testing within 2 years	(\$700 - in house)		Certificate of completion of basic (level 1) technology skills
Pass proficient (level 2) technology skills competency test or complete proficient (level 2) technology skills competency course	RCCSS will provide proficient (level 2) technology skill training. RCCSS will administer staff testing for proficient (level 2) achievement	All staff will complete proficient (level 2) testing within 3 years	(\$700 – in house)		Certificate of completion of proficient (level 2) technology skills
Pass advanced (level 3) technology skills competency test or complete advanced	RCCSS will provide advanced (level 3) technology skill training or seek/employ outside	All staff will complete advanced (level 3) testing within 5 years	(\$700 – in house)		Certificate of completion of advanced (level 3) technology skills

(level 3) technology skills competency course	sources for training. RCCSS will administer staff testing for advanced (level 3) achievement				
TIE (Technology and Innovation in Education)	Continue trainings and collaboration with TIE	Ongoing	\$1500 yearly fee	Title Grant	
TIE Conference, Systems Change Conference, other professional conferences	Coordinate attendance to conferences for teachers, staff and administrators	Ongoing	\$2000/year	Title Grant Operating Budget	
Training	Assess and procure training from outside resources as needed	2009-2010, ongoing	\$5000/year		

**Note: Staff may move on to the next competency level as soon as attaining certification.

III. Use of Technology to Promote Parental Involvement and Increase Communications with Parents

Goal 1: Faculty and parents will improve communications through Edline

Objective	Activity	Timeline	Projected Cost	Category and Source of Funding	Evaluation
Staff and parents will communicate via Edline and email	<p>Minimum teacher requirements will be established for teacher Edline pages and procedures</p> <p>RCCSS will provide more in-depth training on Edline features</p> <p>RCCSS will offer Edline tutorial classes for parents/students</p>	<p>Year 1</p> <p>Throughout year 1 -3 teachers will implement Edline page requirements</p> <p>As needed</p>	\$2900/yearly subscription		<p>Edline Teacher Requirements document</p> <p>Certificate of completion</p> <p>Session evaluation form completed by parents/students</p>

IV. Integration of Technology with Curricula and Instruction

Goal 1: Establish projection and video streaming capabilities in classrooms

Objective	Activity	Timeline	Projected Cost	Category and Source of Funding	Evaluation
Projection capabilities in each classroom	Purchase projectors (and related hardware)	2009 – 10 projectors 2010 – 11 more projectors 2013 – remaining projectors	\$8,000 \$8,000 \$8,000-10,000	Operating Budget Fundraising	Administrative assessment of teacher use of equipment
Training on projector use	Training sessions for staff to practice using projectors	Ongoing as projectors are acquired			
Video Production	Investigate in-house video production for students	2010-2011			Recommendations and costs evaluation

Goal 2: Encourage collaborative teaching and instruction utilizing technology

Objective	Activity	Timeline	Projected Cost	Category and Source of Funding	Evaluation
Implement an Intranet capability	Set up an Intranet	Started fall, 2009	(\$5000 – in house)		Demonstration of Intranet capabilities
Intranet training	Develop training program for Intranet and begin training sessions	Begin 2009-10 school year Ongoing	(\$3000 – in house)		Teacher and staff Intranet activities
Make a CMS (course management system) available for all instructors (example: Moodle)	Research a CMS program to adopt and plan implementation	2009-10 school year	(\$1000 – in house)		
CMS Training		Train all teachers on CMS 2010-11 school year	(\$3000 – in house)		Evaluate courses offering instruction utilizing CMS
Power-up Training (TIE)	3 Teachers participate in Power-up Training	2009-10	Sponsored by TIE		Power-up Teachers develop training model for other teachers

Goal 3: Modernization of technology in labs and classrooms

Objective	Activity	Timeline	Projected Cost	Category and Source of Funding	Evaluation
Updated software and equipment in labs and classrooms	Establish a 3 year rotation schedule for hardware and software	2009-10			
Technology Budget	Tech committee collaborate with facilities & finance committee to establish at technology budget to meet future needs	2009-10	(projected costs to start - \$50,000-75,000/yr)	Operating Budget	

Goal 4: Improve multimedia capability

Objective	Activity	Timeline	Projected Cost	Category and Source of Funding	Evaluation
Achieve multimedia capability for use by technology and regular classrooms	Acquire 6 digital cameras Purchase 6 digital video cameras Purchase 10 microphones for each building	Solicit camera donations by end of 2011 school year Purchase 6 video cameras and 10 microphones (divide between SES/STM) by 2012	\$2,500	Donations Operating Budget	
Training	Develop a training program for camera and video use Train faculty on digital camera use	2010-2011 school year Begin 2010-2011, ongoing	(\$1000 – in house)		Presentation of student video projects

V. Improvement of Infrastructure and Technology

Goal 1: Assess and improve the main facilities environment and network infrastructure

Objective	Activity	Timeline	Projected Cost	Category and Source of Funding	Evaluation
Identify environmental factors required for server rooms, classrooms, computer labs, etc... to support equipment	Technology staff research recommended environmental standards (temperature, humidity, etc...)	2009-10		Possible Energy grants	
Identify any building code and/or industry standards to support equipment	Electrical assessment at SES and STM	2009-10			
Implement necessary changes to environment	Plan and install required environment features to support existing equipment (full load + 10%)	2010-11, ongoing	SES = \$10,000 (electrical) SES Lighting replacement - \$? STM = \$5100 (electrical) 2010-11 – air conditioning in computer labs = \$?		
Evaluate Network Infrastructure	Assess wired and wireless network traffic (profile traffic, DNS, etc...) Add fiber to floors & FTTD (Fiber to the Desktop in specific areas) Upgrade wireless network	2009-10 Beginning 2011-12 school year	Costs to be determined in 2009-10 year		

	Upgrade SES Internet connection (MS security)	Beginning 2011-12 school year Begin when Elementary moves			
Evaluation Schedule	<p>Develop an evaluation schedule for the following:</p> <ul style="list-style-type: none"> *software (network, classroom, operation) *hardware (network, classroom, operation) *rotation/obsolete schedule for hardware and software *network *usage criteria 	2009-10			Evaluation schedule form

Goal 2: Improve the hardware, software, and security infrastructure; and training

Objective	Activity	Timeline	Projected Cost	Category and Source of Funding	Evaluation
Acquire current technologies	Purchase Promethean/SMART boards for SES & STM (or similar capability)	4 Promethean boards for SES – 2009-10 school year	Purchased 4 for price of 2 = \$7600	Operating Budget Other fundraising funds	
	Purchase Active vote system	2 Active vote systems for SES – 2009-10	\$1575/each = \$3150 (2009-10)		
		Ongoing for both SES & STM – 2010-2013	\$8,000-10,000/year		
Virtual client	Evaluate virtual client environments	2010-11 school year	Cost to be determined by evaluation	Operating Budget	
	Implement virtual client environment prototype	2011-13 school years			
Wireless Laptops/access	Replace wireless laptops STM	2010-11 school year	\$40,000	Operating Budget Other fundraising funds	
	Purchase wireless laptops and access points for SES MS	2010-11 school year	\$45,000		
School Management Software	Assess replacement when Elementary moves		Cost to be determined		
	Purchase replacement program	? anticipated move			
Operating System/Applications	Continuously update as needed	Ongoing			

Security	Evaluate physically secure equipment: inventory, tagging	2009-10	Cost to be determined		
	Evaluate Wireless	2010-11			
	Video Surveillance – evaluate end-user device surveillance software	2009-10, ongoing			
	Firewall / remote access (replace Fortinet)	2010-2011	\$8000		

Goal 3: Establish a Green Initiative

Objective	Activity	Timeline	Projected Cost	Category and Source of Funding	Evaluation
Energy Efficiency					Energy Efficiency/Recycling Plan Document
Recycling	Develop plan for implementing a recycling program dependant on hardware rotation and facilities				

VI. Other

Goal 1: Develop Technology Submission Process Documentation

Objective	Activity	Timeline	Projected Cost	Category and Source of Funding	Evaluation
Technology Submission Document	Develop a technology submission document for all staff to consider when evaluating new technologies for school system	2009-10			Technology Submission Process form

RCCSS Technology Inventory (as of 10-2009)

** D = Donated
P = Purchased by RCCSS

Desktop Computers

Dell Optiplex 240 (small – P4, 256-512 RAM)	P (2001)	25
Dell Optiplex 240 (large – P4,1.7Ghz,512 RAM)	D	9
Dell Optiplex260 (P4)	D	1
Dell Optiplex270 (P4,2.8Ghz, 1G RAM)	D/P	3

Dell Optiplex170L (P4, 2.8 Ghz, 1G RAM)	P(2005)	2
Dell PoweredgeSc420 (P4)	D	2
Dell Inspiron 531 (P4, 2.2Ghz, 4G RAM)	P (2008)	1
Dell Optiplex 280 (P4, 2.8Ghz, 1G RAM)	P (2005)	1
Gateway E Series (P4, 2.4Ghz, 1G RAM)	D	13
Dell Dimension 3000 (P4,2.9Ghz, 512 RAM)	D	6
Dell Dimension 4300 (P4)	D	14
Dell Dimension 4400 (P4)	D	16
Dell Dimension 4500 (P4)	D	5
Dell Dimension 4550 (P4)	D	5
Dell Dimension 4600 (P4,2.6 Ghz, 512 RAM)	D	1
Noblis (P4)	D	4
Compaq Evo (P4, 2.4Ghz, 512 RAM)	D	7
Compaq (P3)	D	27
HP (P4, 1.6Ghz, 640 RAM)	D	1
HP Vectra (P4, 1.4 Ghz, 512 RAM)	D	2
CLC White P4's	D	22
CLC Multiwave P4's	D	2
STM Lab Clones P4's	P (STW Grant 2003)	27
<u>Power Mac G4 (1,25Ghz, 1G RAM)</u>	<u>P(STW Grant 2003)</u>	<u>1</u>
	Total	195

Laptops

Gateway 450e (P4, 1.3 Ghz, 512 RAM, wireless)	P (STW Grant 2003)	26
Dell Vostro1510 (P4, 2Ghz, 2G RAM wireless)	P (2008)	19
Dell Vostro 1520 (P4, 2.2Ghz, 3G RAM	P (2009)	3
Dell Vostro 1000 (P4, 1.9Ghz, 2 G RAM wireless)	P (2008 Toyota Gr)	2
Dell Inspiron 2650 (P4, 1.4Ghz, 256 RAM)	P (2002 ?)	1
Dell Latitude D531 (P4, 2.2Ghz, 2G RAM wireless)	P (2007)	1
Dell Inspiron 5100 (P4, wireless)	P (?)	1
Pekny Laptop		
<u>HP nx 9600 (P4, 3Ghz, wireless)</u>	<u>P (2006)</u>	<u>1</u>
	Total	35

Printers

HP LaserJet 4050n	D	3
HP LaserJet 8000	D	2
HP LaserJet 4	D	1
HP LaserJet 4mt	D	2
HP LaserJet 1022	P (2008)	1
HP LaserJet Color 2550	P (2006)	1
HP LaserJet 1300n	P(STW Grant 2003)	3
HP LaserJet 1320	P (2006)	1
HP LaserJet Color 3600n	P (2008)	1
HP LaserJet 4200	P (STW Grant 2003)	1
HP LaserJet 5M	D	1
HP LaserJet 8150	D	1
Zerox DocuPrint	D	1
Barb's printer		
<u>SES Office Color</u>	<u>P(2007)</u>	<u>1</u>
	Total	20

LCD Projectors

Epson	P	13
<u>BoxLight</u>	<u>P (2003)</u>	<u>2</u>
	Total	15

Scanners

PH Scanner G3100	P (2009)	1
<u>STM Lab scanners</u>	<u>P (2006)</u>	<u>2</u>
	Total	3

Servers

SES Print	Exchange Server
Server1	Video
Intranet	Server4
Server6	
Server5 – CLC	
Server2	
Server3	