Information and Technology Plan
July 2009 – June 2011
Oshki Ogimaag School District

23 Upper Road
Grand Portage, Minnesota 55605

OFFICIAL SUBMISSION CERTIFICATION

This 2009-2011 Technology Plan is the official submission of the Oshki Ogimaag Charter School.

Signature of School Director- Sherri Moe Date

Signature of Board Chair – Anna Deschampe Date

Contact Information

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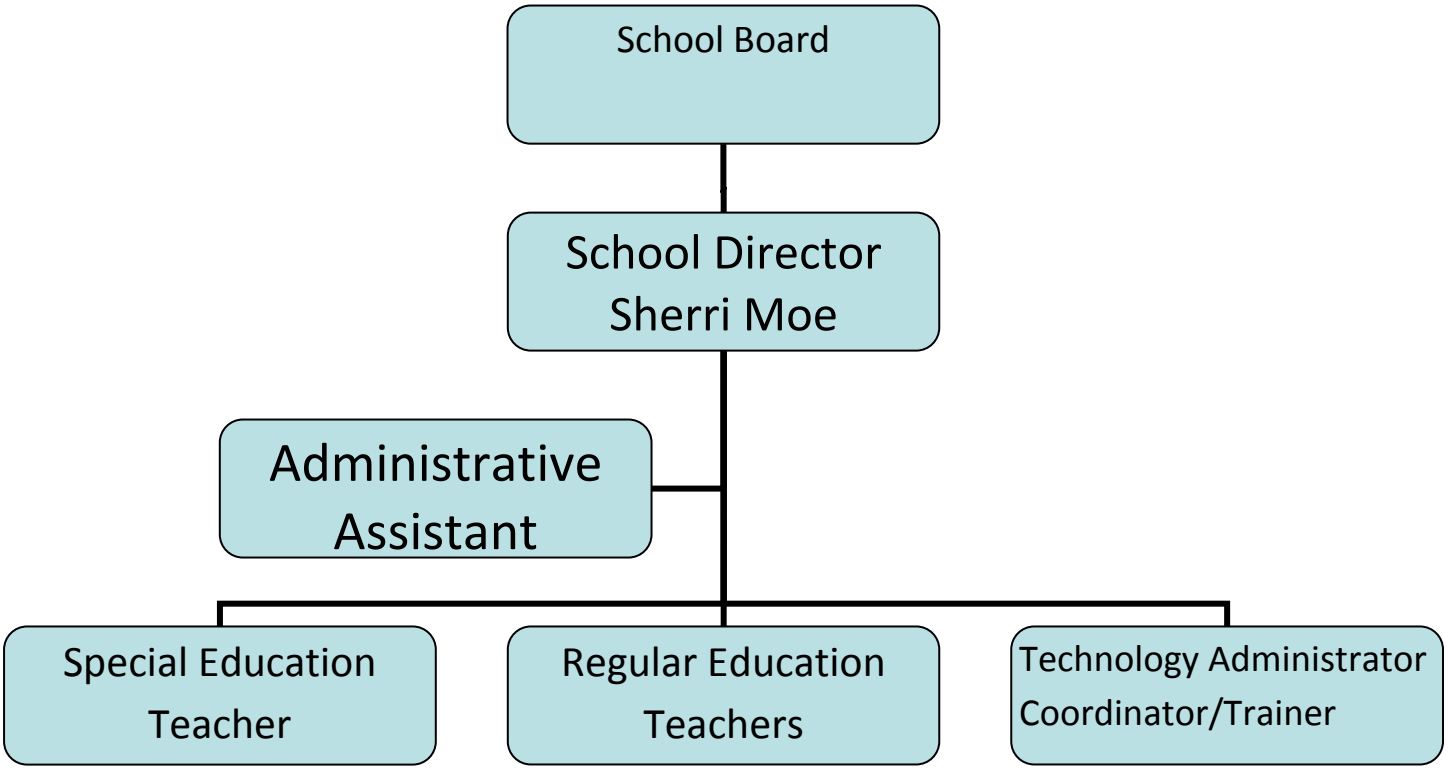
Introduction

Oshki Ogimaag Charter School is a new elementary-level charter school located on the Grand Portage Reservation in Cook County, Minnesota, opening this year, the fall of 2009. Members of the Grand Portage community formed Oshki Ogimaag to provide local school spaces and increased learning opportunities for elementary age students to supplement the local public elementary school operated by Minnesota Independent School District 166 ("ISD 166"), 40 miles from Grand Portage.

I. Planning and Needs Assessment

Organization Leadership and Technology Planning Committee



The Information Technology Committee is a newly formed committee that will meet bi-monthly prior to start of the school year and monthly thereafter. At the end of the 2009-10 school year goals and objectives will be assessed and meeting regularity will be established in accordance with upcoming timelines. The committee is comprised of community members, parents and Charter School Administration with experience in education, technology integration and IT management.

Information Technology Committee Members

Mantsch	Heather	IT Analyst	Grand Portage Reservation
Moe	Sherri	School Director	Oshki Ogimaag
Aubid	Allan	Parent	Oshki Ogimaag
Novitsky	Rick	Minnesota State Parks	Grand Portage State Park
Schmidt	Andy	Environmental Education	Trust Lands/Grand Portage
Suprenant	Tom	Community Member	Former IT Management

Demographics of School and Community

United States Census Bureau Population Estimates

	July 1, 2007	**July 1, 2006**	**July 1, 2005**	**July 1, 2004**	**July 1, 2003**	**July 1, 2002**	**July 1, 2001**	**July 1, 2000**
Grand Portage	579	577	573	572	568	566	562	560

Although our exact student population has yet to be identified, we are estimating that 30% of our students will have IEP's, or participate in the special education program. In Grand Portage, 26.2 % of the residents live below the poverty line, although approximately 60% of students will be eligible for free and reduced lunch due to multiple children in one family. These statistics are based on current free and reduced lunch rates in the resident district for our anticipated student population.

Oshki Ogimaag expects to serve a maximum of 60 elementary school students, ages five to 12. Grand Portage is an Ojibwe community on Lake Superior five miles from the U.S.-Canada border inhabited by approximately 500 people, a substantial majority of whom are members of the Grand Portage Band of Lake Superior Chippewa.

Grand Portage, Minnesota sits practically astride an international frontier, "at the end of the line" for all road, electricity, telephone, and internet connections. Commonplace utilities such as cell phone service and cable television are unavailable. Grand Portage experiences power, telephone and internet outages frequently, and in all seasons. The net effect of these outages is an unreliable utility service, inefficiencies in all aspects of life, and pronounced gaps in productivity. There is an emergency generator for the school, but all workstations will be purchased with a battery backup to cover the lack of power until the generator kicks in. The generator supplies power, but the phone and internet connections are often still lost as power is lost at the substations. When phone connectivity is lost, the only connection to the outside world is through emergency radios held by the ambulance service and Tribal Council. Motivated by these additional challenges, Oshki Ogimaag is energized and prepared to provide better than average educational opportunities for our students!

Needs Assessment Method and Results

Numerous resources were utilized in ensuring this plan is built upon relevant research, best practices, future technologies and needs specific to our location, population, and purpose. Below is a sampling of some of the resources we have used to compile the list of the School's needs.

Websites:

Microsoft's School of the Future
http://www.microsoft.com/education/schooloffuture.mspx
Minnesota Department of Education
http://education.state.mn.us/MDE
National Education Technology Standards
http://cnets.iste.org
U.S. Department of Education
http://ed.gov

Consultant:

Heather Mantsch – IT Analyst for the Grand Portage Band of Chippewa. Heather has over 14 years experience in the Information Technology field with her specialty at K-12 school districts. Heather was a Systems Engineer for Technology Consulting firms in Wisconsin and provided planning, implementation and ongoing support to nearly 50 K-12 school districts in Wisconsin that ranged in size from one building with a few hundred students to over ten buildings and thousands of faculty and students within one district. Her extensive familiarity with a variety of educational, instructional and administrative software, computers, printers, infrastructure, physical and network security, remote access to applications and data, as well as the unique needs of a school district has provided Oshki Ogimaag with ideas, solutions, best practices and resources.

Reports:

EnGauge 21st Century Skills: Education and Competitiveness Guide
http://www.ed.gov/about/offices/list/os/technology/plan/2004/site/edlite-default.html
National Education Technology Plan
http://www.ed.gov/about/offices/list/os/technology/plan/2004/site/edlite-default.html
State Educational Technology Director's Association 2009 National Trends Report
http://www.setda.org/web/guest/2009nationaltrendsreport
2009 Horizon Report on Emerging Technologies in K-12 Education
http://horizon.nmc.org/k12/Main_Page

Developing a Charter School has involved extensive research and planning. Through this research, we have evaluated plans of other districts, enabling us to develop our initial plan. We have spent hundreds of hours researching current and future technologies, studies and reports, National and individual state technology standards, as well as discussing and researching current practices, successes and failures with those working with technology in school districts. A basic needs assessment based on research and past experience has determined the primary need for infrastructure, servers, computers, software and internet access within the classroom and the computer lab. As we have a high percentage of students in special education and with special needs, we found that the use of Smartboards has been highly successful in engaging this population in lessons. Utilizing creative, innovative and engaging technologies is a goal we have as we feel we have to go that extra step to reach many of our students and achieve state standards. Beyond our basic needs, we have expansive goals for integrating technology within the curriculum as will be detailed throughout this plan.

II. OSHKI OGIMAAG Vision, Mission, and Goals for Technology

Because of our remote location and limited contact with "the rest of the world", internet connectivity and technological resources are essential to providing external exposure to people and resources as well as technological opportunities to our students.

It is the hope that the charter school will not only provide basic computers, instructional and administrative software and internet access, but that through the Technology Administrator, skilled staff, motivated Director, and active community members, we will provide unique, innovative, new, exciting, and motivating technologies to our students establishing a national model for technological integration. Our students will leave Oshki Ogimaag with superior skills and creative abilities, an exceptional level of knowledge, a vast array of unique experiences as well as a desire for lifelong learning.

To ensure equal access for all students to technology at the school, a server centric environment will be ultimately be utilized. In time, our plan is to provide all students in grades 2-6 who would like a computer at home a basic workstation with Microsoft Windows and a terminal server connection to the school. This will provide students access to the same interface, educational software, student files, Internet links, Internet searches with security, and Internet e-mail ("Anytime/Anywhere" access) even if the student does not have a computer in his/her home.

The ability to access the school resources from home embraces our school philosophy of a school without walls, provides a school to home connection and will encourage parent involvement. The webpage provided to the students will be stimulating, new, energetic, and FUN in order to encourage students to access school information at all times of the day and week.

Oshki Ogimaag's website will feature Anishinaabe music and art, shortcuts to dictionaries and encyclopedias, educational websites, exciting "site of the day" links, numerous internet resources, fun facts, educational activity ideas, student project information, virtual expeditions, Anishinaabe "Word of the Day", and Anishinaabe language, Elder stories, Legends and cultural and historical links and images. We will integrate the old with the new, integrate the learning of all subjects while ensuring state standards are met and make it exciting and engaging with technology.

A. Our Vision:

Inspired by Tribal, state, national, and world leaders while working in concert with our community, parents, and faculty, Oshki Ogimaag students will experience technology as an integral part of the classroom functioning in a student centered, multi-disciplinary environment. Students will access innovative software and equipment aligned with learning objectives enabling specific student needs to be met, allowing for increased autonomy and responsibility, promoting equal opportunities, encouraging student cooperation with peers, and developing reasoning, critical thinking, and decision making skills. Students will gain a familiarity with information technology sufficient to exploit and invent future advances in technology whilst gaining the confidence to communicate, create, and collaborate with others worldwide.

B. Our Mission:

Technology will be used as part of a model that involves students in complex tasks, allows for student-centered cooperative learning, increases teacher-student and peer interaction, and fosters positive attitudes towards learning by:

- Partnering with parents, community, businesses and online collaboration
- Implementing high quality, focused curriculum addressing not only essential learning, but also innovative, creative solutions to maximize students' enthusiasm for learning and preparation for the future;
- Ensuring that technology is as accessible as all other classroom tools;
- Ensuring best practices in instruction and assessment;
- Using research, reports and data to drive instructional decision-making;
- Recognizing and meeting the unique needs of individuals;
- Inspiring life-long learning for all student and staff; and
- Supporting collaborative learning teams.

C. Our Priority Goals:

Goal #1: Secure technology funding for Oshki Ogimaag Charter School to begin implementing a multi-phase technology plan, meeting the first benchmark in August, 2009.

Objectives:
1.1: Write E2T2 State Grant
1.2: Write E-Rate FCC Grant for past due opportunity. Write E-Rate grant in all future years to secure funding for internet access and necessary infrastructure upgrades.
1.3: Apply to state for Telecommunications/Internet Access Equity Aid Funding
1.4: Appeal to Reservation Business Council for additional funding
1.5: Research private and public grants opportunities for new and innovative use of technology within the school.
1.6: Follow student recruitment plan to increase the number of students thereby increasing our general revenue and technology funding.

In order to meet the rest of the goals in our technology plan, we will need to secure funding, solicit donations and recruit volunteers to assist in meeting our technology needs. We hope to meet our financial needs through government and private grants and local support. In order to be successful in private grants, we will be diligent in researching unique funding opportunities that will expose our students to otherwise unavailable learning experiences.

Goal #2: Ensure technology staff availability to assist with: grant writing, technology planning, product procurement, conducting staff training, website improvements, complete desktop, server and network administration, and exposing students to innovative technologies by June, 2009.

Objectives:
2.1: Obtain approval from Reservation Business Council to utilize IT staff for immediate needs of grant writing, planning, procurement and initial setup.
2.2: Secure Technology Administrator/Coordinator for full time use.
2.3: Utilize interested students from Technology Club to assist in technology related curriculum research, workstation imaging and other duties as deemed productive.
2.4: Utilize volunteer members of the community to expose students to new and innovative technologies .

The Technology Administrator/Coordinator job description is included as Appendix B. In order to secure, install and maintain the computer equipment we need someone to understand our unique security needs as well as provide solutions to better server our students, teachers and administrative staff.

Goal #3: Acquire Internet Link, firewall, filtering abilities and internal infrastructure to support desktop computer access to the internet by August 2009.
3.1: Coordinate installation of High Speed Internet Link (1.5MB or greater)
3.2: Provide routing, firewall and filtering to the school
3.3: Provide cabling and switches as needed around the school to connect internal equipment and the internet

In order to install computers and servers to run our programs we will need the infrastructure to support it. Due to our location, local providers are limited to CenturyTel (carrier from Grand Portage to Grand Marais) and Qwest (carrier from Grand Marais to Duluth). Currently, we are utilizing borrowed infrastructure equipment from our local Reservation Tribal Council until we are able to secure funding for our own equipment. We will immediately purchase filtering software for a sonicwall that can be moved to our own equipment once funding is secured.

Goal #4: Align technology with Minnesota State Standards and school goals across the curriculum allowing for full technological integration by September 2010.
4.1: Provide each classroom access to internet connected computers for use throughout the school day by students and teachers.
4.2: Provide multimedia, internet enabled computer lab access for full class presentations/projects.
4.3: Teachers implement technology into all areas of the curriculum with the assistance of Technology Administrator
4.4: Achieve or surpass district and Nationally recognized technology standards.
4.5: Implement innovative technologies that create enthusiasm for learning and encourage collaboration with each other, community members and their remote peers as well as experts in the fields they are studying.
4.6: Research technology integration methods, and use Oshki Ogimaag Curriculum Integration Guide to meet Minnesota State Standards through the use of software, equipment, and computer based learning opportunities.

Our plan is to develop a computer lab with 15 student computers. Each classroom will have 4-6 student computers equipped with headphones and microphones, quality graphic monitors, processors and memory to support current and future multimedia applications for up to 5 years. Teachers will be provided with laptops so they can move about their classroom, their office or the computer lab with ease. The laptops will have a camera and microphone built-in as well as wireless connectivity. We hope to encourage further research and learning from their home by providing a laptop. All computers will be internet connected with access to school e-mail and data storage. The teachers as well as the Technology Administrator will continually research new online activities and technologies to complement the lessons that fulfill the required state standards. The use of a Smartboard in each classroom for regular and special education students will encourage learning and increase engagement in the lesson and collaboration with other students. As a startup school we are in the process of determining the best assessment tools to ensure our students are successfully achieving Minnesota State Academic Standards.

Goal #5: Implement server centric environment providing the same interface, software, bookmarks and data regardless of student location encouraging learning outside of the classroom as well and creating a school to home connection.
Objectives:
5.1: Procure, install and implement servers for users, security and desktop policies, printer policies, data storage, email and application delivery.
5.2: "Anytime/Anywhere Access" – Provide remote access to all staff and students.

The majority of our students do not have computers or internet access from home. Once we have provided basic technology access within the school, remote access to the school's resources will be enabled. The students with home computers can then access the school network. By utilizing donated and somewhat outdated equipment, we can provide all students with a "dumb terminal" which will enable them terminal server access to all applications and data at the school. We will need to find funding to provide an internet connection to the homes where it is not currently available.

Goal #6: Provide School Administration Software for attendance, grading, lunch accounting and remote parental and student access.
Objectives:
6.1: Identify School Administration Software
6.2: Procure School Administration Software
6.3: Deliver School Administration Software to teachers
6.4: Provide remote parent and student access to grades, attendance and assignments
6.5: Provide professional development for school administrative software ensuring software will be utilized to its full capabilities.

Goal #7: Develop and implement ongoing, curriculum based staff development in order to provide our students with technology competent instructors who present effective and engaging lessons utilizing technology while addressing all other educational standards beginning in July 2009.
Objectives:
7.1: Continually identify research based professional development resources and opportunities for teachers and school staff.
7.2: Identify and prioritize staff development needs based upon a needs assessment completed by the Information Technology Committee.
7.3: Technology Committee ensures that professional development is research based and meets high standards for effective staff development.
7.4: Provide the time, access, and support necessary for teachers to learn to utilize technology effectively.
7.5: Professional Development Programs will contain the following learning objectives for staff:

a. Connection to student learning;
b. Hands-on technology use;
c. Variety of learning experiences
d. Curriculum specific applications
e. New roles for teachers
f. Collegial learning
g. Active participation of teachers

Professional development programs should assist teachers in acquiring educational technology knowledge so that it complements and augments curriculum standards. Professional development is an integral part of the school technology plan, as it is an essential factor in using technology to improve teaching and learning. Professional development will be viewed as an ongoing an integral part of teachers' professional lives.

Goal #8: Develop the School Website to increase parent and community involvement while encouraging the students into accessing online educational resources outside of school hours.
Objectives:
8.1: Provide safe, educational links for students of all skill levels
8.2: Provide links to Anishinaabe language and culture websites
8.3: Provide a link to an online community calendar
8.4: Provide access to student assignments and grades for parents or guardians.
8.5: Provide daily changes to include items such as "fun link o' the day", Anishinaabe word of the day, links to contests, color and theme changes based on for example, "earth day", "Art History Month", etc… to engage the staff and students.

III. Policies and Procedures

Equitable Access for Students with Exceptional Needs

STATEMENT OF NONDISCRIMINATION

All students attending Oshki Ogimaag schools may participate in all programs and activities, will be provided access to all resources, including career and technical education, regardless of creed, race, color, national origin, ancestry, religion, marital status, parental status, homelessness, emotional, physical, mental or learning disability or handicap, sexual orientation or gender.

Internet Safety and CIPA Compliance

Internet Safety Policy with CIPA Compliance and Student Use Policy
Oshki Ogimaag Charter School

Introduction

It is the policy of Oshki Ogimaag to:

(a) prevent user access over its computer network to, or transmission of, inappropriate material via Internet, electronic mail, or other forms of direct electronic communications; (b) prevent unauthorized access and other unlawful online activity;

(c) prevent unauthorized online disclosure, use, or dissemination of personal identification information of minors; and

(d) comply with the Children's Internet Protection Act [Pub. L. No. 106-554 and 47 USC 254(h)].

Definitions

Key terms are as defined in the Children's Internet Protection Act.

Access to Inappropriate Material

To the extent practical, Internet Filtering shall be used to block or filter Internet, other forms of electronic communications or access to inappropriate information. Specifically, as required by the Children's Internet Protection Act, blocking shall be applied to visual depictions of material deemed obscene or child pornography, violent or to any material deemed harmful to minors. Subject to staff supervision, technology protection measures may be disabled or, in the case of minors, minimized only for bona fide research or other lawful purposes.

Inappropriate Network Usage

To the extent practical, steps shall be taken to promote the safety and security of users of the Oshki Ogimaag online computer network when using electronic mail, chatrooms, instant messaging, and other forms of direct electronic communications. Specifically, as required by the Children's Internet Protection Act, prevention of the inappropriate network usage includes:

(a) unauthorized access, including so-called 'hacking,' and other unlawful activities; and

(b) unauthorized disclosure, use, and dissemination of personal identification information regarding minors.

(c) illegal or commercial purposes

Supervision and Monitoring

It shall be the responsibility of all members of the Oshki Ogimaag staff to supervise and monitor usage of the online computer network and access to the Internet in accordance with this policy and the Children's Internet protection Act. Procedures for the disabling or otherwise modifying any technology protection measures shall be the responsibility of the Technology Administrator/Coordinator or designated representatives.

Student Privilege

Access to computer network services is provided to increase student enthusiasm and engagement for lessons and learning. In order to provide the students with reliable technology, we will need the assistance of students. Students utilizing the technology agree to treat the equipment with care so it will be available to them on a daily basis. In order to provide a safe, reliable platform, computer security policies will prevent students from saving files or programs or make any changes to the computer. Students utilizing the technology will inform the staff if they are able to make any changes to the computer or installed software. Any electronic mail, chat rooms or instant messaging will be utilized as a learning tool or as specifically allowed by staff.

Adoption

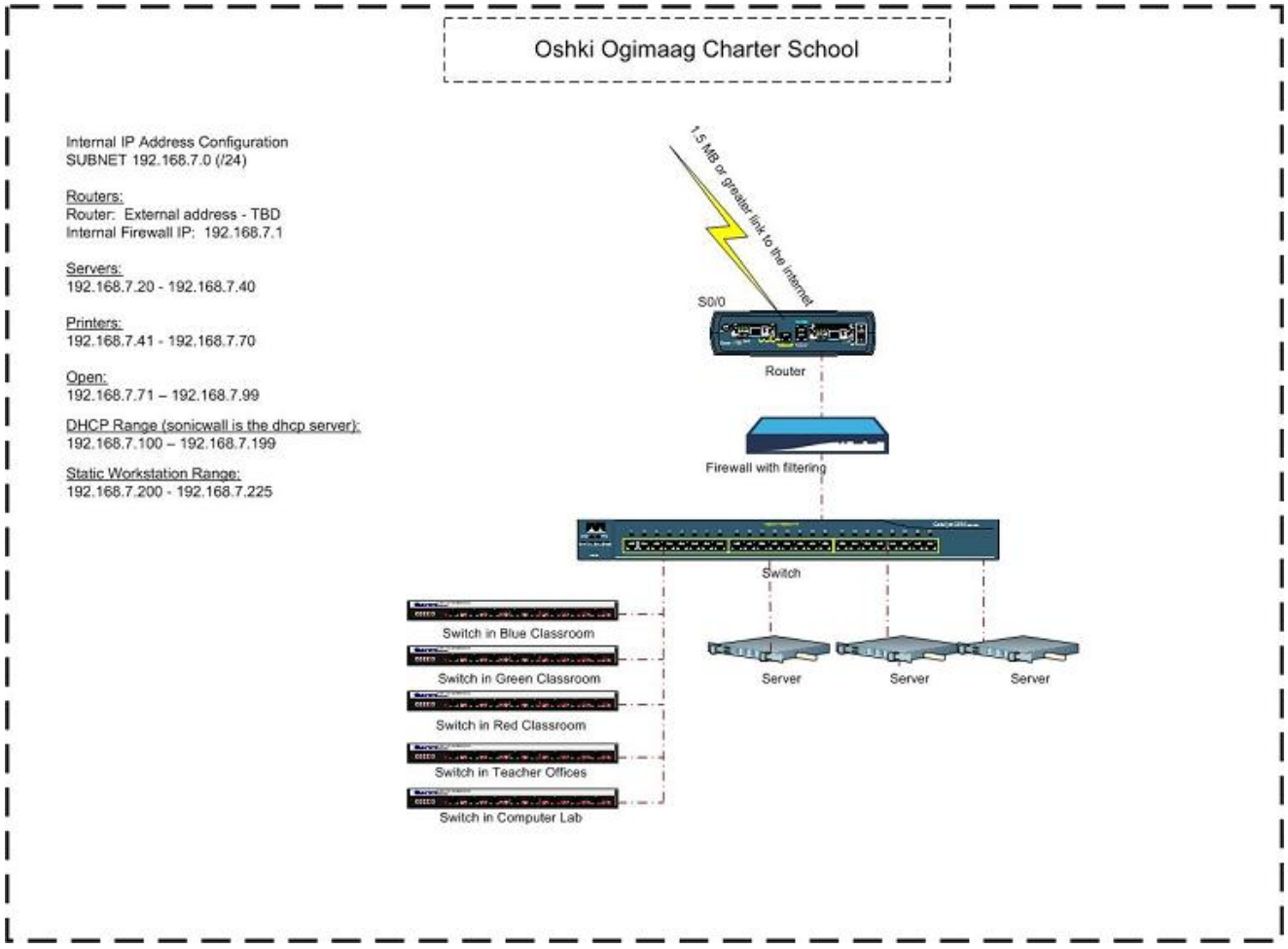
The Board of Oshki Ogimaag adopted this Internet Safety Policy at a public meeting, following normal public notice, on **April 23, 2009.**

IV. Technology Infrastructure, Management, and Support

QUESTION	RESPONSE
What is your telecommunications/Internet connectivity capacity in your school district or school for Internet access and video connectivity?	We will have a T1 (1.5mbps) link to the internet provided by CenturyTel. We will have a Cisco Router and SonicWall between our network and the internet.
Do you have plans to expand this capacity within the next three to four years?	Yes. There is a potential for broadband throughout the entire county which would provide 100mbps to the school as well as every powered home in the county.
If you plan to expand telecommunications capacity, what will be your anticipated capacity by the end of this planning period (July 1, 2011)?	The capacity will probably still be limited to a T1. As soon as additional, affordable options are available we will increase our capacity.
What is your student to Internet-connected computer ratio? What will this ratio be at the end of the planning cycle?	8:1 Currently the school owns 5 student computers and our expected student population will be 40 students. The ratio is one computer to every 9 students. We hope to have a 2students:1computer ratio by the end of the planning cycle.
What is your teacher to Internet-connected computer ratio? What will this ratio be at the end of the planning cycle?	2:1 – We have an initial budget of two computers for the four teachers. We will be applying for the E2T2 grant in which we will budget for a ratio of 1computer per teacher (1:1)
Are the majority of the computers accessible for students located within labs or classrooms?	Labs. When additional funding is secured, there will be 5 computers in a lab. The plan is for 4-6 computers per classroom and a lab of 15 computers.
What is the average age of computer equipment used for instruction?	The 5 currently owned computers are 3 years old. The plan is to procure all new equipment if funding becomes available.
What is the timeline for your computer equipment replacement cycle?	The plan is to replace the equipment every 5-7 years depending upon the funding and ability to provide a "dumb-terminal" based computer to students for remote access to the school.
What is your computer platform? PC-based, MacIntosh-based or both?	PC-based equipment for financial reasons, local technical support and student familiarity for the future.
How many technology support staff do you have to manage your technology infrastructure and network?	When additional funding is secured, one person will install and maintain the servers, desktop computers, software, assist with integrating technology into the classroom and providing staff training.

Is the technology support staff sufficient to effectively manage your technology infrastructure and network? If not, what staff capacity do you think you need?	No. The plan is to secure a full time, experienced technology support staff person. This will be necessary to effectively support the infrastructure, servers, software and deliver staff training.
Is assistive technology for students with special needs provided and supported in your school district or school?	When funding is secured, the plan is to provide Smartboards as well as special needs software, rich multimedia experiences and specialized software as required by individual student needs. Assistive technology will be identified dependent upon student need, and special education funds may cover specific costs.
Are technology support staff provided with the necessary training they need, including training associated with assistive technology?	Technology Support Staff will utilize online training throughout the school year. A requirement of the Technology Support Staff will be previous training experience so they will be better equipped to train our teachers and administrative staff. The Grand Portage Reservation has a contract for network and server specific online training that is available for the future support staff to use. ITV capabilities will be available in the community in June, 2009 for training purposes.
How and when are technology support staff provided with training?	The training available will depend upon grant funding. Because of our location, there is additional time and money involved for any training that is not online.
What particular challenges does your school district or school face in providing sufficient access and technology resources to your staff and students?	Our school is quite small so we will struggle with funding. We are located in a very remote area with intermittent access issues because of weather, only one link/line to our area for power, phone and internet connectivity and minimal support from CenturyTel (our provider).

Visio Diagram of proposed network infrastructure



V. Role of School Media Center

Not Applicable. There is not currently a library, library media center or library staff. Initially we expect the role of the library media center to be met through our computer lab and assistance with research to be provided by the Technology Staff. The Technology Coordinator/Integrator's job description is attached as Appendix B and one of the job requirements is to develop training for teachers and students for "best and safe research practices" on the internet. A school goal is to secure a library with a media center.

VI. Staff Development and Training

Staff development and training is one of the primary technology goals. We will develop and implement ongoing, curriculum based staff development in order to provide our students with technology competent instructors who present effective and engaging lessons utilizing technology while addressing all other educational standards beginning in July 2009. Once our teachers have been selected we will establish a baseline of technological expertise amongst staff enabling us to identify and prioritize staff development needs based upon a needs assessment created by the Information Technology Committee. Once the needs assessment is complete each staff member will receive an individual professional development program containing the learning objectives based on the following:

a. Connection to student learning;
b. Hands-on technology use;
c. Variety of learning experiences
d. Curriculum specific applications;
e. New roles for teachers
f. Collegial learning
g. Active participation of teachers

The individual programs will allow for sufficient time, access and support for the staff to successfully achieve the goals within their program. The Technology Committee and School Director will continually identify research based professional development resources and opportunities for teachers and school staff. At the end of each school year each staff member and their program will be evaluated, assessed and modified as needed to address the ever changing world of technology.

VII. Budget for Technology

CATEGORY	ITEM(S) DESCRIPTION	FY2010 BUDGET	FY2011 BUDGET2
Salaries and Wages for Technology Staff	Technology Administrator/Coordinator/Staff Trainer	$40,000	$40,000
Fringe Benefits for Technology Staff	FICA, PERA	$4,752	$4,752
Communications (telephone, Internet access)		$4,800	$4,800
Technology Staff Development	Online courses will be utilized by all staff. The Technology Administrator will conduct on-site staff training for all instructional and administrative software.	0	0
Technology Workshops and Conferences	To be determined	$3,000	$2,000
Technology Leases and Rentals	Copier/Printer/Fax/consumables 3 YEAR Lease	$2,641	$2,641
Purchased Technology Services (i.e., maintenance)	These are included in the cost of the hardware		
Supplies and Materials (computer software, etc. both instructional and non-instructional)	Administrative Software, Office Productivity Software, Instructional Software	$20,000	$8,000
Capital Expenditures (technology equipment)	Student and Staff Desktop computers, Servers, Switches, Routers, Firewall, Smartboards,	$50,000	$12,000
	TOTALS	$125,193.00	$69,441.00

VIII: Implementation Plan

Goal #1 Secure technology funding for Oshki Ogimaag Charter School to begin implementing a multi-phase technology plan, meeting the first benchmark in August, 2009.

Objectives	Action Steps	Timeline/Resources	Success Indicators	Responsibility
1.1: Write E2T2 State Grant	Finish and submit technology plan. Receive notice of approved technology grant Write and submit grant	By April 22, 2009 By May 17, 2009 By May 17, 2009	Plan submitted on time Approved Technology Plan Grant submitted on time	Anna Deschampe IT Analyst
1.2: Write E-Rate FCC Grant for past due opportunity. Write grant in all future years to secure funding for internet access and necessary upgrades.	Finish and submit technology plan. Receive notice of approved technology grant Submit letter of appeal to FCC Finish Form 470/471	By April 22, 2009 By May 17, 2009 Once Technology Plan is completed As soon as possible	Plan submitted on time Approved Technology Plan	Anna Deschampe IT Analyst
1.3: Apply to state for Telecommunications/Internet Access Equity Aid Funding	Research and document procedure for receiving Equity Aid Funding	April 23, 2009		IT Analyst
1.4: Appeal to Reservation Business Council for additional funding	Present budget and needs to Tribal Council	May 15, 2009	Tribal Council approves additional funding	School Director
1.5: Research private and public grants opportunities for new and innovative use of technology within the school.	Utilizing the internet and contacting various private corporations and individuals to become aware of new funding opportunities throughout the school year.	Continuous	Continued source	

1.6: Follow student recruitment plan to increase the number of students thereby increasing our general revenue and technology funding.	School Director will establish a student recruitment plan. Parents, volunteers, staff, and board members will follow through on implementation.	Immediate/Continuous	A growth in student enrollment each year	School Director

Goal #2: Ensure technology staff availability to assist with: grant writing, technology planning, product procurement, conducting staff training, website improvements, complete desktop, server and network administration, and exposing students to innovative technologies by June 2009.

Objectives	Action Steps	Timeline/Resources	Success Indicators	Responsibility
2.1: Obtain approval from Reservation Business Council to utilize IT staff for immediate needs of grant writing, planning, procurement and initial setup	Discuss needs with Reservation Business Council to obtain approval.	Immediate	Council votes yes to supply staff for immediate needs	Anna Deschampe
2.2: Secure Technology Administrator/Coordinator for full time use.	Present Job Description and requirements to school board for approval	Immediate	School board approves position	Anna Deschampe
2.3: Utilize interested students from Technology Club to assist in technology related curriculum research, workstation imaging and other duties as deemed productive.	Have Technology Administrator create Technology Club.	September 2009	More than one student joins Technology Club	Technology Administrator
2.4: Utilize volunteer members of the community and parents to expose students to new and innovative technologies	Recruit volunteers from the technology committee and postings in the community	September 2009	Various community members deliver presentations to students as well as creating projects with students to participate in said innovative technology.	Technology Administrator Technology Committee Teachers School Director

Goal #3: Acquire Internet Link, firewall, filtering abilities and internal infrastructure to support desktop computer access to the internet by August 2009.

Objectives	Action Steps	Timeline/Resources	Success Indicators	Responsibility
3.1: Coordinate installation of High Speed Internet Link (1.5MB or greater)	Obtain pricing for link from Century Tel Order link	Immediate	Internet Access is available from within the school building.	Technology Coordinator
3.2: Provide routing, firewall and filtering to the school	Borrow equipment from Reservation Business Council until the School acquires funding. Install router, firewall and filtering capabilities	Immediate	Filtered Internet Access is available from within the school building.	Technology Coordinator
3.3: Provide cabling and switches as needed around the school to connect internal equipment and the internet	Borrow equipment from the Reservation Business Council until the School acquires funding. Install switches, wireless access points and cabling where needed.	Immediate	Filtered Internet Access is available from within the school building.	Technology Coordinator

Goal #4: Align technology with Minnesota State Standards and school goals across the curriculum allowing for full technological integration by September 2010.

Objectives	Dependencies and Action Steps	Timeline/Resources	Success Indicators	Responsibility
4.1: Provide each classroom access to internet connected computers for use throughout the school day by students and teachers.	Complete Goals #1 and #2. Procure computers Create desktop image for quick "repair" of any computer	By September 2009	All 3 regular education classrooms and Special Education classroom have internet connected, secure computers	Technology Coordinator
4.2: Provide multimedia, internet enabled computer lab access for full class presentations/projects.	Complete Goals #1 and #2. Procure computers Create desktop image for quick "repair" of any computer	By September 2009	The designated computer lab has 15 internet connected computers.	Technology Coordinator
4.3: Teachers implement technology into all areas of the curriculum with the assistance of Technology Administrator	Complete Goals #1 and #2 Technology Administrator is provided lesson plans by the teachers and researches all subject areas to provide additional ideas, links and software to integrate technology within the lesson.	September 2009 – June 2011	Students show progress in the use of technology. The computer lab is being utilized during every hour of the day. The Tech Admin documents technology integration suggestions on a weekly basis. The School Director verifies that teachers are utilizing suggestions.	Teachers Technology Coordinator School Director

4.4: Achieve and surpass district and Nationally recognized technology standards.	Complete Goals #1, #2 and #3 Finalize and approve School Technology Standards based on school year. Technology Coordinator creates achievement certificate to be presented to students at the end of each school year. Teachers verify each standard has been achieved based on school year dependent proficiency checklist. Teachers and Technology Coordinator works with students to gain national recognition for innovative technology projects.	August 2009 May 2010 – Continuous	School Board approves technology standards All students receive Technology Standard Certificate. Numerous students are involved in creative and innovative technology projects throughout the school year.	School Board, Teachers, School Director, Technology Administrator
4.5: Implement Innovative technologies that create enthusiasm for learning and encourage collaboration with each other, community members and their remote peers as well as experts in the fields they are studying.	Achieve Goals #1 and #2 Procure Smartboards and acquire and disseminate training to all staff. Research and implement multimedia rich, collaboration tools, mobile options, remote accessibility, smart objects, collaborative accessibility, wikis, blogs and other innovative technologies that increase students' engagement, desire to learn, exposure to the world around them and technology skills.	August 2009 - Continuous	Each classroom and the computer lab have a Smartboard by the end of the 2011 school year. The Charter School receives grants and national recognition for implementing innovative technologies within the district.	School Director Technology Coordinator

4.6: Research technology integration methods, and use Oshki Ogimaag Curriculum Integration Guide to meet Minnesota State Standards through the use of software, equipment, and computer based learning opportunities.	Conduct research and surveys of other similar schools for recommendations on assessment tools.	Immediate-Continuous	By the end of our first fiscal school year, we will have selected tools and conducted assessments of all the students' achievement of the Minnesota State Academic Standards.	Education Director School Director Technology Coordinator

Goal #5: Implement server centric environment providing the same interface, software, bookmarks and data regardless of student location encouraging learning outside of the classroom as well as creating a school to home connection.

Objectives	Dependencies and Action Steps	Timeline/Resources	Success Indicators	Responsibility
5.1: Procure, install and implement servers for users, security and desktop policies, printer policies, data storage, email and application delivery.	Complete Goals #1,2 and 3	By November 2009	All staff and students are able to readily access any computer within the school and have the same desktop "look and feel", same applications and same data access regardless of the computer they use. All students are able to print to the shared printer in the computer lab. All staff are able to print to their own printer, the lab printer and the high output printer in the office.	Technology Coordinator
5.2: "Anytime/Anywhere Access" – Provide remote access to all staff and students.	Complete Goals #1,2,3 and 5.1 Procure, install and implement server for accessing the same school desktop "look and feel", applications and data from remote locations.	By March 2009	All staff and students are able to remotely access their desktop, applications and data.	Technology Coordinator

Goal #6: Provide School Administration Software for attendance, grading, lunch accounting and remote parental and student access.

Objectives	Dependencies and Action Steps	Timeline/Resources	Success Indicators	Responsibility
6.1: Identify School Administration Software	Evaluate and price School Administration Software options; TIES, Powerschool, Renweb and Skyward	Immediate	School board votes on school administration software.	School Administrator Technology Coordinator
6.2: Procure School Administration Software	Acquire grant funding Obtain Purchase Order and place order with selected company.	August 2009	Purchase Order has been created for software. Software has arrived at the school	Technology Coordinator
6.3: Deliver School Administration Software to teachers	Dependencies: 6.1 and 6.2 Install School Administration Software	August 2009	Staff is able to access Administrative Software.	Technology Coordinator
6.4: Provide remote parent and student access to grades, attendance and assignments	Install required web software per the selected software	July 2009	Parents or guardians and students are able to securely access student information from remote location.	Technology Coordinator
6.5: Provide professional development for school administrative software ensuring software will be utilized to its full capabilities.	Identify knowledgeable trainer for professional development. Allocate time for professional development.	August 2009	Teachers, staff, and director are comfortable with administrative software. Parents are able to utilize school software for student information.	Technology Coordinator

Goal #7: Develop and implement ongoing, curriculum based staff development in order to provide our students with technology competent instructors who present effective and engaging lessons utilizing technology while addressing all other educational standards beginning in July 2009.

Objectives	Dependencies and Action Steps	Timeline/Resources	Success Indicators	Responsibility
7.1: Continually identify research based professional development resources and opportunities for teachers and school staff.	Complete an informal or formal needs assessment for staff development. Understand teachers' prior knowledge and comfort level with technology.	Research begins immediately, planning will continue through July 2009 for initial training. Ongoing.	A professional development plan is implemented throughout Oshki Ogimaag Charter School.	Technology Committee School Director
7.2: Identify and prioritize staff development needs based upon a needs assessment completed by the Information Technology Committee	Establish a baseline of technological expertise amongst staff. Identify technology integration goals within the classroom.	Immediate and ongoing.	The IT Committee will have baseline knowledge by July 1, 2009 in order to prepare professional development activities for August, 2009. Needs assessment will continue informally with programming dependent on assessment.	IT committee
7.3: Technology Committee ensures that professional development is research based and meets high standards for effective staff development	Perform research on effective professional development strategies. Evaluation and assessment will be continual.	August, 2009	Teachers are satisfied with outcomes, and learn relevant material for classroom use.	School Director Technology Committee

7.4 Provide time, access, and support necessary for teachers to learn to utilize technology effectively	Designate an amount of time necessary, and a yearly professional development schedule based on needs assessment.	Ongoing	Teachers have adequate time and resources to have questions answered and hands-on learning time.	School Director
7.5: Professional Development Programs will contain the following learning objectives for staff: a. Connection to student learning; b. Hands-on technology use; c. Variety of learning experiences d. Curriculum specific applications e. New roles for teachers f. Collegial learning g. Active participation of teachers	Teachers will understand objectives prior to staff development. Administration and School Board will support professional development and learning objectives.	August, 2009/ongoing	Teachers and staff will utilize technology in their classroom based on learning objectives.	School director Technology Administrator

Goal #8: Develop the School Website to increase parent and community involvement while encouraging the students into accessing online educational resources outside of school hours.

Objectives	Dependencies and Action Steps	Timeline/Resources	Success Indicators	Responsibility
8.1: Provide safe, educational links for students of all skill levels		By September 2009 - Ongoing		Technology Coordinator
8.2: Provide links to Anishinaabe language and culture websites		By September 2009 - Ongoing		Technology Coordinator
8.3: Provide a link to an online community calendar		By September 2009 - Ongoing		Technology Coordinator
8.4: Provide access to student assignments and grades for parents or guardians.		By September 2009 - Ongoing		Technology Coordinator
8.5: Provide daily changes to include items such as "fun link o' the day", Anishinaabe word of the day, links to contests, color and theme changes based on for example, "earth day", "Art History Month", etc… to engage the staff and students.		By September 2009 - Ongoing		Technology Coordinator

IX: Evaluation Plan

At the end of each fiscal year, June 2010 and June 2011, the following questions will be asked of the School Director and the Technology Administrator:

Goal #1: Secure Funding for technology for Oshki Ogimaag Charter School.
Evaluation Questions:
What funding has been applied for?
What funding has been awarded?
Who has been integral in applying for and receiving these funds?

Goal #2: Ensure Technology staff availability to assist with grant writing, technology planning, product procurement, conducting staff training, website improvements, complete desktop, server and network administration and exposing students to innovative technologies.
Who has been integral in implementing the physical hardware?
Who has been integral in installing and supporting the software?
Who has been integral in encouraging and providing resources for integration of technology into the State Standards?

Goal #3: Acquire Internet Link, firewall, filtering abilities and internal infrastructure to support desktop computer access to the internet.
What speed internet link exists for access to the internet?
Have students and staff been kept from accessing inappropriate sites, yet are able to access all educational sites necessary?
Have there been speed issues in accessing the internet, data or applications?

Goal #4: Implement Minnesota State Educational Standards along with technology into all areas of study within our curriculum.
Has computerized testing been implemented to assess state standard achievement?
Are teachers seeing an increase in student's familiarity and comfort level in utilizing technology?

Goal #5: Implement server centric environment providing the same interface, software, bookmarks and data regardless of student location thus encouraging learning outside of the classroom as well as increasing students' sense of connectedness to their school.
Are students and teachers able to access the same desktop, all applications and data from any computer within the school?
Are students and teachers able to access the same desktop, all applications and data from any computer connected to the internet?

Goal #6: Provide School Administration Software for attendance, grading, lunch accounting and remote parental and student access.
Has Student Administration Software been chosen?
Are state reports able to be generated from chosen administration software?
Are guardians and students able to access student attendance, grading and lunch program information from outside the school?

Goal #7: Create staff development programs in order to provide our students with technology competent instructors who present effective and engaging lessons utilizing technology while addressing all other educational standards.
How many online courses have teachers completed?
How many in-service courses have been offered to teachers?
How many in-service courses have teachers completed?

Goal #8: Develop the School Website to increase parent and community involvement while encouraging the students into accessing online educational resources outside of school hours.
Does the website change daily?
Are there effective, educational links and information provided and updated on a regular basis?
Do students access the website daily?

Appendix A

NETS (National Educational Technology Standards) for Students

The technology foundation standards for students are divided into six broad categories. Standards within each category are to be introduced, reinforced, and mastered by students. These categories provide a framework for linking performance indicators within the Profiles for Technology Literate Students to the standards. Teachers can use these standards and profiles as guidelines for planning technology-based activities in which students achieve success in learning, communication, and life skills.

Technology Foundation Standards for Students

1. Basic operations and concepts
- ✓ Students demonstrate a sound understanding of the nature and operation of technology systems.
- ✓ Students are proficient in the use of technology.

2. Social, ethical, and human issues
- ✓ Students understand the ethical, cultural, and societal issues related to technology.
- ✓ Students practice responsible use of technology systems, information, and software.
- ✓ Students develop positive attitudes toward technology uses that support lifelong learning, collaboration, personal pursuits, and productivity.

3. Technology productivity tools
- ✓ Students use technology tools to enhance learning, increase productivity, and promote creativity.
- ✓ Students use productivity tools to collaborate in constructing technology-enhanced models, prepare publications, and produce other creative works.

4. Technology communications tools
- ✓ Students use telecommunications to collaborate, publish, and interact with peers, experts, and other audiences.
- ✓ Students use a variety of media and formats to communicate information and ideas effectively to multiple audiences.

5. Technology research tools
- ✓ Students use technology to locate, evaluate, and collect information from a variety of sources.
- ✓ Students use technology tools to process data and report results.
- ✓ Students evaluate and select new information resources and technological innovations based on the appropriateness for specific tasks.

6. Technology problem-solving and decision-making tools
- ✓ Students use technology resources for solving problems and making informed decisions.
- ✓ Students employ technology in the development of strategies for solving problems in the real world.

Appendix B

Technology Administrator/Coordinator for Oshki Ogimaag Charter School

Job Description

This position will require creating a new technology environment for the Charter School starting from the ground up.

Primary Duties

- Work enthusiastically with students, teachers and administrators to create a positive, motivational, enjoyable learning environment.
- Provide software and hardware procurement recommendations.
- Install, configure and maintain all desktop and server computers and software.
- Manage the consistent delivery of applications and resources to student and staff computers
- Provide the same interface, applications, data access and security regardless of where users access the network - create an "anytime/anywhere" environment.
- Ensure desktop, server and data access 99% uptime through imaging, RAID drives and backups.
- Ensure computer labs are setup to provide students with immediate access to relevant applications based on teacher scheduling to minimize time waiting.
- Work with administration and staff to ensure technology is integrated into the curriculum and the Anishinaabe language and culture in order for students to achieve Minnesota's Academic Standards.
- Continually research new, innovative technologies to improve learning and motivate staff and students.
- Maintain and update website daily with fresh ideas, links, information and activities for staff and students.
- Provide training to staff for all computer hardware and software applications.
- Develop training for teachers and students for “best and safe” internet research recommendations
- Create Technology Club for interested students.
- Work with the School Technology Committee to ensure standards are being addressed, met and surpassed, new ideas are implemented, community members and parents are providing unique skills and concerns and that the technology in the school provides the students with enthusiasm for learning, world perspectives, access to current and upcoming technologies and the skills to be competitive and successful in the future.
- Work with Cook County ISD166 to ensure the students from Oshki Ogimaag Charter School have all the skills needed to be successful upon entering Cook County ISD166.
- Work with Cook County ISD166 to ensure that they are providing students with as many upcoming technologies as we provide.
- Continually research and apply for technology grants.
- Maintain Technology Plan and Assessments.

Experience Preferred:

- Experience deploying and maintaining desktop workstations.
- Experience installing server hardware and software, including Active Directory, E-Mail, Backup and WebServer software
- Experience maintaining user accounts, user security and access policies, printers, applications within a secure networked environment
- Experience providing terminal services and/or Citrix environment to multiple workstations
- Experience providing application training to large groups.
- Experience with web design
- Familiarity with the unique needs of a school/student environment or willing to learn.