Technology Leadership Team:

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Abstract:

All learners will have engaging and empowering learning experiences both in and outside of school that prepare them to be active, creative, knowledgeable, and ethical participants in our globally networked society.

The "always on" nature of the Internet, mobile access devices, and students' technology fluency give states, districts, and schools opportunities to offer ***on-demand learning experiences*** *that are available* ***anytime*** *and* ***anywhere****. Private and public sector developers of instructional materials should exploit the* ***flexibility*** *and* ***adaptability*** *of technology, paying special attention to learners who have been marginalized in many educational settings: students from low-income communities and minorities, English language learners, students with disabilities, students who are gifted and talented, students from diverse cultures and linguistic backgrounds, and students in rural areas. Developers should combine technology with design principles for* ***individualized, differentiated****, and* ***personalized learning*** *and with Universal Design for Learning (UDL) principles to support multiple options for representing ideas and for embedding supportive structures and processes within both commercially available and open learning resources. States and districts should adopt and implement these resources to the extent possible.—U.S. Department of Education Recommendation 1.3*

Vision:

Is to ensure rigorous and relevant learning opportunities that offer on-demand experiences available to students at anytime and anywhere. These experiences need be flexible and adaptable to individualize, differentiate, and personalize the learning experience for all students, preparing them to be lifelong learners that will be successful in a global society.

Digital Learning Initiative:

Technology clearly plays a significant role in our lives and the lives of our students. In an educational setting, technology and digital tools can be extremely advantageous for accessing, processing, and producing content as well as enhancing instruction in the classroom. Technology also allows students to collaborate in ways that were not previously possible, and the integration of digital tools helps to ensure that students develop skills necessary to be successful in today's world. Those skills are not only transferrable between content areas, but also applicable to future academic and job-related tasks.

By providing equitable access to educational technology, we have already noted many benefits including the following: increased organization, flexible submission of work, more frequent communication between teachers and students/families, access to more current resources, seamless collaboration, differentiated learning experiences, and more. Our two main areas of focus through the 1:1 program are **individualizing instruction** and **improving 21st century skills**. Other goals of the program include the following:

- Increase student engagement
- Accelerate learning
- Promote rigor and relevance

- Reduce achievement gaps
- Provide immediate feedback
- Increase access to anytime learning
- Encourage collaboration
- Inspire creativity and innovation

<table>
<tr><td colspan="7">I. Increase student learning through effective technology-enhanced teaching and learning, and engagement practices</td></tr>
<tr><td colspan="7">Strategy A: Improve curriculum and instruction using technology tools and resources</td></tr>
<tr><td></td><td>Action</td><td>Responsibility</td><td>Budget</td><td>2016-2017</td><td>2017-2018</td><td>2018-2019</td></tr>
<tr><td>1</td><td>Replace aging Smartboards with Apple TV devices capable of supporting wireless connection so that classroom equipment is viable and
accessible from mobile student devices (Train on how Apple TV is better than Interactive Whiteboard)</td><td>Margot Hansen/Sibel Dikmen/Jack Gernbacher/Bryce Jacobson</td><td>Technology</td><td>Cost: $2,000
<u>Measurement/Evaluation</u>
Current Number of Interactive Whiteboards: 41 Elementary

Current Number of Apple TV Devices: 9</td><td>Cost: $3,000
<u>Measurement/Evaluation</u>
Current Number of Interactive Whiteboards:_____

Current Number of Apple TV Devices:____</td><td>Cost: $4,000
<u>Measurement/Evaluation</u>
Current Number of Interactive Whiteboards:_____

Current Number of Apple TV Devices:____</td></tr>
<tr><td>2</td><td>Enhance the learning management system (Schoology), including the development of Assessments, open source and flipped learning experiences for students.
(Could Look at Google Classroom which is free if we go to a Google Solution)</td><td>Margot Hansen/Staff</td><td>Technology</td><td>Cost: $16,200
<u>Measurement/Evaluation</u>
Number of staff using Schoology to communicate with students/parents:

<table><tr><td colspan="2">Chatfield</td></tr><tr><td>PK</td><td>4/4</td></tr><tr><td>Kindergarten</td><td>5/7</td></tr><tr><td>Grade 1</td><td>2/6</td></tr></table></td><td>Cost: $16,200
<u>Measurement/Evaluation</u>
Number of staff using Schoology to communicate with students/parents:____

Number of staff using Schoology to administer assessments to students:____

Number of staff using Schoology to administer a Blended Learning Experience:____</td><td>Cost: $16,200
<u>Measurement/Evaluation</u>
Number of staff using Schoology to communicate with students/parents:____

Number of staff using Schoology to administer assessments to students:____

Number of staff using Schoology to administer a Blended Learning Experience:____</td></tr>
</table>

Grade 2	4/5
Specialists & RTI	4/4
Oak Crest	
Grade 3	1/5
Grade 4	2//5
Grade 5	3/5
Grade 6	2/4
Specialists & RTI	2/15
Secondary School	
English	2/5
Math	5/5
Social	4/5
Science	5/5
PE/FACS	0/3
TECH ED	0/2
Business ED	2/2
AG	0/2
ART	0/1
SPANISH	1/1

				Number of staff using Schoology to administer assessments to students: 34 Number of staff using Schoology to administer a Blended Learning Experience: 30 (Math is 100% Blended at grades Five, Six, and Seven. Amy Endres will be starting Blended Learning in math at Fourth Grade this Spring.)		
3	Examine and provide recommendations for the revision of the curriculum review cycle and adoption process to reflect the dynamic nature of digital instructional resources--Expand of blended learning that embeds various technology tools into the learning Process (Web 2.0 tools, Social Media, etc.)	Margot Hansen/Staff	Curriculum	***Cost: $10,600*** **Measurement/Evaluation** Digital Utilization	***Cost: $10,600*** **Measurement/Evaluation**	***Cost: $10,600*** **Measurement/Evaluation**
4	Maintain and expand the use of e-books and other digital resources as part of a comprehensive literacy collection to provide more independent reading based and guided reading resources for students (Storia, RAZ Kids, Lexia, IXL, STEM FUSE, Spelling City/Vocabulary City)	Margot Hanson/Staff	Curriculum	***Cost: $30,000*** **Measurement/Evaluation** Digital Utilization	***Cost: $30,000*** **Measurement/Evaluation**	***Cost: $30,000*** **Measurement/Evaluation**
5	Explore possibilities of establishing an online-learning school to provide more opportunities and choice for our	Mindy Chevalier/Laurie Green/Dave Kreft	Curriculum	***Cost: $16,289*** **Measurement/Evaluation** Number of students taking online courses: 83	***Cost: $16,289*** **Measurement/Evaluation** Number of students who leave the District to take online	***Cost: $16,289*** **Measurement/Evaluation** Number of students who leave the District to take online

	students and students in surrounding communities. (APEX Learning)			Number of students who leave the District to take online courses: 4 Financial loss to the District for the number of students who leave the District: Number of students who come to the District and enroll in an online course: ZERO Financial gain to the District for the number of students who take online courses from outside the District: ZERO	courses:____ Financial loss to the District for the number of students who leave the District:____ Number of students who come to the District and enroll in an online course:____ Financial gain to the District for the number of students who take online courses from outside the District:____	courses:____ Financial loss to the District for the number of students who leave the District:____ Number of students who come to the District and enroll in an online course:____ Financial gain to the District for the number of students who take online courses from outside the District:____
6	Create flexible, digital learning spaces in our schools to enhance both collaborative and personalized learning Chatfield, Oak Crest, Secondary, etc. (We need to define what Flexible Learning Spaces are)	Mindy Chevalier/Dave Kreft/Liann Hanson/Kim Dewitte	Capital	***Cost: $5248*** **Measurement/Evaluation** Number of flexible learning spaces created in the District that are available to students to gather: ● Media Center redo ● Flex Learning space located off of the media center ● Used over 90% of the day and has eliminated complaints about study hall students interfering with classes working in the media center	***Cost: $10,000*** **Measurement/Evaluation** Number of flexible learning spaces created in the District that are available to students to gather:	***Cost: $10,000*** **Measurement/Evaluation**
7	Investigate systems and processes to manage student individual learning plans for better engagement of students in their own learning	Laurie Green/Mindy Chevalier/Dave Kreft	Perkins	***Cost: $MCIS*** **Measurement/Evaluation** Percentage of students that have six year plans:____ Percentage of students who meet	***Cost: $MCIS*** **Measurement/Evaluation** Percentage of students that have six year plans:____ Percentage of students who meet	***Cost: $MCIS*** **Measurement/Evaluation** Percentage of students that have six year plans:____ Percentage of students who meet

				each year for academic planning around their six year plan:____	each year for academic planning around their six year plan:____	each year for academic planning around their six year plan:____
8	Develop plans, structure and support to offer an online learning day in the event of a school closing to prevent the loss of valuable instructional time.	Margot Hansen/Mindy Chevalier/Dave Kreft/Liann Hanson/Kim Dewitte	Curriculum	***Cost: Section 1:A3*** **Measurement/Evaluation** *Elementary:* Digital Utilization *Secondary:* We have 16 teachers who have 100% of their course content online, 2 teachers have 75% of their course content available, 4 teachers have 50% of their course content available, 2 teachers have 25% of their course content available, and 5 teachers have 0% of their course content available.	***Cost: Section 1:A3*** **Measurement/Evaluation**	***Cost: Section 1:A3*** **Measurement/Evaluation**
Strategy B: *Ensure that all learners are effective users of information and technology*						
	Action	Responsibility	Budget	2016-2017	2017-2018	2018-2019
1	Review information and technology literacy in every curricular review process to ensure that instructional standards are being delivered with fidelity and technology helps meet the individual needs of learners Highest Level--Fully Blended	Margot Hansen/Staff	Curriculum	***Cost: Survey/Observation*** **Measurement/Evaluation** Digital Utilization Technology is used to facilitate the literacy curriculum:	***Cost: Survey/Observation*** **Measurement/Evaluation**	***Cost: Survey/Observation*** **Measurement/Evaluation**

Medium Level--Skill Support

Low Level--Student Choice

Grade Level	Rating
Kindergarten	Raz Kids Lexia Tumble Books
Grade 1	RAZ Kids Lexia Tumble Books
Grade 2	RAZ Kids Lexia Tumble Books
Grade 3	Storia IXL-ELA Spelling City
Grade 4	Storia IXL-ELA Spelling City
Grade 5	Storia IXL-ELA Spelling City
Grade 6	Storia IXL-ELA Spelling City

Technology is used to facilitate the math curriculum:

Grade	Rating

Level	
Kind	IXL-Skill development
Grade 1	IXL-Skill development
Grade 2	IXL-Skill development
Grade 3	IXL-Skill development
Grade 4	IXL-Skill development
Grade 5	Fully Blended
Grade 6	Fully Blended
Grade 7	Fully Blended
Grade 8	Student Choice
Grade 9	IXL-Skill Development
Grade 10	IXL-Skill Development
Grade 11	IXL-Skill Development
Grade 12	IXL-Skill Development

				Percentage technology is used to facilitate the Science curriculum: 90% Percentage technology is used to facilitate the social studies curriculum: 85%		
2	Teach responsible use and digital citizenship through curriculum implementation so that students understand their roles and responsibilities in a digital society	Margot Hansen/Staff	Curriculum	***Cost: Survey/Observation*** **Measurement/Evaluation** Working with the TECH PLC it has become very evident that digital citizenship needs to be taught throughout all curriculum areas and not just in STEM/TECHNOLOGY courses.	***Cost: Survey/Observation*** **Measurement/Evaluation** Develop criteria of what digital citizenship is and how we can integrate it into instruction:____ Percentage of students who understand what digital citizenship is:____ The number of disciplinary actions that are taken as a result of not understanding digital citizenship:____	***Cost: Survey/Observation*** **Measurement/Evaluation** Develop criteria of what digital citizenship is and how we can integrate it into instruction:____ Percentage of students who understand what digital citizenship is:____ The number of disciplinary actions that are taken as a result of not understanding digital citizenship:____
3	All students K-6 will learn computer coding because it is the language of the 21st Century	Katie MaierMatt Kirk/ Don Fraser/Bryce Jacobson	Curriculum	***Cost: Section I. A4*** **Measurement/Evaluation** Number of students who code for 30 minutes per week: ● 881 Studenter per week ○ 389 30 min ○ 492 50 min	***Cost: Section I. A4*** **Measurement/Evaluation** Percentage of students who code for 30 minutes per week:____	***Cost: Section I. A4*** **Measurement/Evaluation** Percentage of students who code for 30 minutes per week:____
4	Offer pathways for students to pursue that provide direction towards careers in Informational Technology Fields (i.e. APP	Ryan Laager/Margot Hansen/Josh Otto/Matt	Curriculum	***Cost: $5,000*** **Measurement/Evaluation** Implement curriculum changes that guide students towards	***Cost: $5,000*** **Measurement/Evaluation**	***Cost: $5,000*** **Measurement/Evaluation**

	Development, Web Development, Database Development, etc.)	Kirk/Don Fraser/Bryce Jacobson		pathways in IT Fields: Starting in the Fall of 2017 we will be offering a coding course where students will develop an APP/Website/Programming Robots, etc. Develop a student Tech Team where students will assume the responsibility of fixing and maintaining our 1:1 program		
5	Develop a robust robotics program that allows students to learn life skills creating a vision, confidence, and a desire that students can create their own future.		Technology	***Cost: $10,000*** **Measurement/Evaluation** Number of students participating in Robotics 3-6: 126 students Number of students participating in Robotics 9-12: 40 students	***Cost: $10,000*** **Measurement/Evaluation** Number of students participating in Robotics 3-12:____ Number of students participating in Robotics 9-12:	***Cost: $10,000*** **Measurement/Evaluation** Number of students participating in Robotics 3-12:____ Number of students participating in Robotics 9-12:
Strategy C: *Increase engagement of all stakeholders using technology tools and resources*						
	Action	Responsibility	Budget	2016-2017	2017-2018	2018-2019
1	Improve parent and student information portals to provide more access to classroom information and better communication with the teacher and school (Campus Portal (25,000), Schoology (16,200)	Chelsea Hutchison	General Fund	***Cost: $50,200*** **Measurement/Evaluation** Percentage of staff using Campus, Schoology, and Illuminate to post information for parents and students: Percentage of Parents who access Campus Parent Portal:____	***Cost: $50,200*** **Measurement/Evaluation** Percentage of staff using Campus, Schoology, and Illuminate to post information for parents and students:____ Percentage of Parents who access Campus Parent Portal:____	***Cost: $50,200*** **Measurement/Evaluation** Percentage of staff using Campus, Schoology, and Illuminate to post information for parents and students:____ Percentage of Parents who access Campus Parent Portal:____

				Percentage of parents who access Schoology: Avg. 1,100 parent logins a month, district wide.	Percentage of parents who access Schoology:____	Percentage of parents who access Schoology:____
2	Provide more parent training on technology tools available for engaging in their children's education (Campus Portal, Illuminate, Schoology). Offer through Community Education.	Margot Hansen/Chelsea Hutchison/Sibel Dikmen/Jack Gernbacher/Mindy Chevalier	Community Education	***Cost:*** **Measurement/Evaluation** Percentage of parents who attend trainings on the night of conference to learn more about the technology tools that help provide feedback about their students:____	***Cost:*** **Measurement/Evaluation** Percentage of parents who attend trainings on the night of conference to learn more about the technology tools that help provide feedback about their students:____	***Cost:*** **Measurement/Evaluation** Percentage of parents who attend trainings on the night of conference to learn more about the technology tools that help provide feedback about their students:____
3	Update systematic guidelines for the Grading for Learning initiative to promote communication and feedback that supports personalized learning practices	Dave Kreft/Mindy Chevalier/Margot Hansen	Curriculum	***Cost:*** **Measurement/Evaluation** *Secondary:* We have 16 teachers who have 100% of their course content online, 2 teachers have 75% of their course content available, 4 teachers have 50% of their course content available, 2 teachers have 25% of their course content available, and 5 teachers have 0% of their course content available. 35 teachers administer formative assessments on schoology.	***Cost:*** **Measurement/Evaluation**	***Cost:*** **Measurement/Evaluation**
4	Improve the content and resources	Chelsea Hutchison	Technology	***Cost:***	***Cost:***	***Cost:***

	available through the district and school web sites to better inform, and improve services to stakeholders			**Measurement/Evaluation** New Web Site Communication Plan Individualized Learning • Blended Learning • Coding • Balanced Literacy • 1:1 Program • LEAP • FLEX • Digital Storytelling Student Involvement Academic Performance Early Learning Initiatives Quality Instruction	**Measurement/Evaluation**	**Measurement/Evaluation**
5	Develop a MakerSpace where students can stretch their creative minds during study hall's, class time, after school activities, etc.	Ryan Laager	Technology	***Cost: $20,000*** **Measurement/Evaluation** Number of MAKERSpaces created in the District:____ Number of projects completed by students in the MAKERSpaces:____	***Cost: $20,000*** **Measurement/Evaluation** Number of MAKERSpaces created in the District:____ Number of projects completed by students in the MAKERSpaces:____	***Cost: $20,000*** **Measurement/Evaluation** Number of MAKERSpaces created in the District:____ Number of projects completed by students in the MAKERSpaces:____
II. Recruit, develop and support technology-proficient staff						
Strategy A: *Use multiple formats and models for professional learning that integrate technology with curricular content and pedagogy*						
	Action	Responsibility	Budget	2016-2017	2017-2018	2018-2019
1	Develop more online-delivered professional learning courses to provide opportunities for learning outside of traditional school hours (i.e. Learners Edge	Ryan Laager/Margot Hansen/Dave Kreft/Liann Hanson/Kim Dewitte	Professional Development	***Cost:*** **Measurement/Evaluation**	***Cost:*** **Measurement/Evaluation**	***Cost:*** **Measurement/Evaluation**
2	Revisit the Bronze, Silver, and	Bryce	Professional	***Cost: PLC Time***	***Cost: PLC Time***	***Cost: PLC Time***

	Gold standard for technology proficiency to ensure the levels are meeting our needs of proficiency for staff implementation	Jacobson/Josh Otto/Don Fraser/ Matt Kirk	Development	**Measurement/Evaluation** Tech Integration Matrix High School Staff Matrix Chatfield School Matrix	**Measurement/Evaluation**	**Measurement/Evaluation**
3	Offer incentives for advanced certifications to promote teacher leadership in specific instructional technology content areas (Chuck can you calculate a cost based on a credit earned towards a lane change?)	Ryan Laager	General Fund Staffing	***Cost:*** **Measurement/Evaluation** Percentage of staff who have attained the Gold Standard on Tech Benchmark: Percentage of staff who attain advanced certifications in the area of technology (i.e. certified online teacher, master in instructional technology leadership, etc.):____	***Cost:*** **Measurement/Evaluation** Percentage of staff who have attained the Gold Standard on Tech Benchmark:____ Percentage of staff who attain advanced certifications in the area of technology (i.e. certified online teacher, master in instructional technology leadership, etc.):____	***Cost:*** **Measurement/Evaluation** Percentage of staff who have attained the Gold Standard on Tech Benchmark:____ Percentage of staff who attain advanced certifications in the area of technology (i.e. certified online teacher, master in instructional technology leadership, etc.):____
Strategy B: *Increase technological skills and knowledge of all staff*						
	Action	Responsibility	Budget	2016-2017	2017-2018	2018-2019
1	Hire a Technology Integration Instructional Coach to work with staff on continuous technology training opportunities so technology is used effectively	Ryan Laager/Margot Hansen	General Fund Staffing	***Cost: $52,200*** **Measurement/Evaluation** Hire an instructional coaching position to support technology advancement: Bryce Jacobson Blended Learning Advancement Coding Digital Storytelling	***Cost: $54,100*** **Measurement/Evaluation**	***Cost: $55,725*** **Measurement/Evaluation**
2	Develop an onboarding process for technology training so newly-hired staff may be productive quickly	Bryce Jacobson	Professional Development	***Cost: $1500*** **Measurement/Evaluation** Align an onboarding process with the Gold Standard staff can achieve to earn credits towards lane changes:____	***Cost: $1500*** **Measurement/Evaluation** Percentage of new staff who achieve the Bronze status:____ Percentage of new staff who achieve the Silver status:____	***Cost: $1500*** **Measurement/Evaluation** Percentage of new staff who achieve the Bronze status:____ Percentage of new staff who achieve the Silver status:____

				Percentage of new staff who achieve the Bronze status:____ Percentage of new staff who achieve the Silver status:____ Percentage of new staff who achieve the Gold status:____	Percentage of new staff who achieve the Gold status:____	Percentage of new staff who achieve the Gold status:____
3	Provide continuous opportunities for technology integration STEM specialists, and technical support staff to maintain relevant technology support skills	Margot Hansen/Ryan Laager	Professional Development	***Cost:*** **Measurement/Evaluation**	***Cost:*** **Measurement/Evaluation**	***Cost:*** **Measurement/Evaluation**
III. Ensure that students and staff have robust access to technology						
Strategy A: *Provide appropriate access to technologies*						
	Action	Responsibility	Budget	2016-2017	2017-2018	2018-2019
1	Upgrade technology equipment that is below minimum standards and keep an update replacement schedule so equipment remains viable (Replace teacher classroom Mac Minis with Airbook 13" laptops)	Sibel Dikmen/Jack Gernbacher	Technology	***Cost: $11,290*** **Measurement/Evaluation** Staff replacement machines will be on a six-year cycle and machines will be replaced on that time schedule:____	***Cost: $28,225*** **Measurement/Evaluation** Staff replacement machines will be on a six-year cycle and machines will be replaced on that time schedule:____	***Cost: $28,225*** **Measurement/Evaluation** Staff replacement machines will be on a six-year cycle and machines will be replaced on that time schedule:____
2	Sustain personalized learning devices for all students in grades K-12 to provide access to digital personalized learning resources	Margot Hansen/Bryce Jacobson/Don Fraser/Matt Kirk/Josh Otto	Technology	***Cost: $266,589*** **Measurement/Evaluation** Percentage of students that have an electronic device that provides them access to unlimited information: **100%** Percentage of students who have	***Cost: $266,589*** **Measurement/Evaluation** Percentage of students that have an electronic device that provides them access to unlimited information: Percentage of students who have	***Cost:***

				a 1:1 computing experience in a cloud based environment: **100%** Percentage of students who use a learning management system (LMS) to improve their connection between content and their learning: **100%**	a 1:1 computing experience in a cloud based environment: Percentage of students who use a learning management system (LMS) to improve their connection between content and their learning:	
3	Install and maintain laptops for all teachers and administrators to provide more mobility and flexibility to information and resources	Sibel Dikmen/Jack Gernbacher	Technology	***Cost: Section III: A1*** **Measurement/Evaluation**	***Cost: Section III: A1*** **Measurement/Evaluation**	***Cost: Section III: A1*** **Measurement/Evaluation**
4	Ensure portals are working on buses providing students access to the internet traveling to and from events	Chuck Keller	Technology	***Cost: $3600*** **Measurement/Evaluation** Number of buses that have working, digital portals, that provide internet to our students: 4 buses Percentage of students who use the digital access available on buses: Low but improving	***Cost: $3600*** **Measurement/Evaluation** Number of buses that have working, digital portals, that provide internet to our students:____ Percentage of students who use the digital access available on buses:____	***Cost: $3600*** **Measurement/Evaluation** Number of buses that have working, digital portals, that provide internet to our students:____ Percentage of students who use the digital access available on buses:____
5	Implement a digital equity plan to provide students options for 24/7 internet and digital access regardless of whether or not a student has access at home	Chuck Keller/Margot Hansen/Sibel Dikmen/Jack Gernbacher		***Cost:*** **Measurement/Evaluation**	***Cost:*** **Measurement/Evaluation**	***Cost:*** **Measurement/Evaluation**
6	Implement cost effective network security filters and solutions to maintain a safe, yet flexible internet access	Sibel Dikmen/Jack Gernbacher	Technology	***Cost: 24,453*** **Measurement/Evaluation** Average cost firewalls in regionally competitive districts:___ Research and identify most commonly used firewall products in regionally	***Cost: 24,453*** **Measurement/Evaluation** Average cost firewalls in regionally competitive districts:___ Research and identify most commonly used firewall products in regionally	***Cost: 24,453*** **Measurement/Evaluation** Average cost firewalls in regionally competitive districts:___ Research and identify most commonly used firewall products in regionally

				competitive school districts:____	competitive school districts:___	competitive school districts:__
7	Improve tools & systems for teachers to better monitor student engagement tighten and loosen access to devices (JAMF)	Margot Hansen		***Cost:*** **Measurement/Evaluation** JAMF Has been a significant upgrade from Airwatch. We no longer have to maintain a green list. Teachers can control which apps appear and when they appear. Many staff have commented on how great the management side is of the Ipads	***Cost:*** **Measurement/Evaluation**	***Cost:*** **Measurement/Evaluation**
Strategy B: *Enhance and maintain a cost-effective, high-speed network*						
	Action	Responsibility	Budget	2016-2017	2017-2018	2018-2019
1	Identify and hire a network technician to manage, monitor and maintain the District network	Ryan Laager	Technology/ Capital	***Cost: $52,000*** **Measurement/Evaluation** Partnering with South Central and this has gone well	***Cost: $52,000***	***Cost: $52,000***
2	Upgrade and maintain network switches & access points for reliable access to network resources	Margot Hansen/Chuck Keller/South Central Cooperative/ South West Metro Intermediate/etc	eRate/ Technology	***Cost:*** **Measurement/Evaluation** Percentage of switches and access points that are 4 years are newer:_____	***Cost:*** **Measurement/Evaluation** Percentage of switches and access points that are 4 years are newer:_____	***Cost:*** **Measurement/Evaluation** Percentage of switches and access points that are 4 years are newer:_____
3	Maintain and increase internet and wide-area (WAN) bandwidth to provide robust access to district and internet-based systems, data and resources	Margot Hansen/Chuck Keller/South Central Cooperative/ South West Metro Intermediate/etc	Technology	***Cost: $27,600*** **Measurement/Evaluation**		
4	Conduct annual bandwidth audit	Margot		***Cost:***		

	to ensure proper allocation of resources	Hansen/Chuck Keller/South Central Cooperative/ South West Metro Intermediate/etc		**Measurement/Evaluation**		
IV. Maintain reliable and secure technology infrastructure and systems, and provide responsive support services						
Strategy A: *Provide integrated information systems to support data-driven decision-making and results-oriented programs and services*						
	Action	Responsibility	Budget	2016-2017	2017-2018	2018-2019
1	Organize digitized forms and documents with a document management system to streamline document-driven processes and to improve services	Chuck Keller/Amy Franck/Chelsea Hutchison		***Cost: $10,000*** **Measurement/Evaluation** Percentage of our paper files that are converted to digital forms (i.e. employee forms, interview materials, etc.):____	***Cost: $10,000*** **Measurement/Evaluation** Percentage of our paper files that are converted to digital forms (i.e. employee forms, interview materials, etc.):____	***Cost: $10,000*** **Measurement/Evaluation** Percentage of our paper files that are converted to digital forms (i.e. employee forms, interview materials, etc.):____
Strategy B: *Provide essential technology support services to ensure that the technology remains operational and dependable for effective use*						
	Action	Responsibility	Budget	2016-2017	2017-2018	2018-2019
1	Expand technology integration instructional coaching positions to provide school-based training and support for teachers	Margot Hansen/Ryan Laager	Technology/ Capital	**Measurement/Evaluation** Pilot in 2016-2017 and make decisions on the future based on financial viability	***Cost: Section II: B1*** **Measurement/Evaluation**	***Cost: Section II: B1*** **Measurement/Evaluation**

2	Maintain & improve the helpdesk system using student-staffed technology support teams to develop & manage providing both additional technology support and opportunities for students to serve and build technology skills while increasing self-sufficiency and quicker resolution of technical problems	Josh Otto/Sibel Dikmen/ Margot Hansen/Laurie Green	Technology	***Cost: No Cost (Internship opportunities for students)*** **Measurement/Evaluation** Working on Developing a pilot for 2017-2018 in partnership with Jordan & Southwest Metro	***Cost: No Cost (Internship opportunities for students)*** **Measurement/Evaluation** Pilot in the 2017-2018 school year	***Cost: No Cost (Internship opportunities for students)*** **Measurement/Evaluation**
Strategy C: *Protect district data and technology assets*						
	Action	Responsibility	Budget	2016-2017	2017-2018	2018-2019
1	Replace aging uninterruptible power supply (UPS) batteries and upgrade servers to minimize network downtime	Margot Hansen/Chuck Keller/South Central Cooperative/ South West Metro Intermediate/etc	Technology	***Cost: $3,800*** **Measurement/Evaluation** Power supply batteries are changes out and update every two years:____	***Cost:*** **Measurement/Evaluation** Power supply batteries are changes out and update every two years:____	***Cost: $3,800*** **Measurement/Evaluation** Power supply batteries are changes out and update every two years:____
2	Conduct annual security audit to identify and resolve any unknown network security issues	Margot Hansen/Chuck Keller/South Central Cooperative/ South West Metro Intermediate/etc		***Cost:*** **Measurement/Evaluation** Each year we will review security issues that arise and ensure our firewall is providing the necessary protection:____	***Cost:*** **Measurement/Evaluation** Each year we will review security issues that arise and ensure our firewall is providing the necessary protection:____	***Cost:*** **Measurement/Evaluation** Each year we will review security issues that arise and ensure our firewall is providing the necessary protection:____
3	Upgrade network storage and backup systems for improved capacity & performance	Margot Hansen/Chuck Keller/South Central Cooperative/ South West Metro Intermediate/etc		***Cost:*** **Measurement/Evaluation**	***Cost:*** **Measurement/Evaluation**	***Cost:*** **Measurement/Evaluation**
4	Examine and refine disaster recovery processes and procedures for proper and orderly restoration of identified mission-critical	Margot Hansen/Chuck Keller/South Central		***Cost:*** **Measurement/Evaluation**	***Cost:*** **Measurement/Evaluation**	***Cost:*** **Measurement/Evaluation**

	applications and systems	Cooperative/ South West Metro Intermediate/etc				
Strategy D: *Follow technology standards, policies and practices to ensure compatibility, cost-effectiveness and efficient support*						
	Action	Responsibility	Budget	2016-2017	2017-2018	2018-2019
1	Annually review & update hardware, software & system standards to ensure compatibility	Margot Hansen/Chuck Keller		***Cost:*** **Measurement/Evaluation**	***Cost:*** **Measurement/Evaluation**	***Cost:*** **Measurement/Evaluation**
2	Annually review the relationships and cost of preferred technology partners for efficient and effective services (rSchool Today, Affinity, Infinite Campus, Illuminate, SMART Systems, etc)	Margot Hansen/Chuck Keller		***Cost:*** **Measurement/Evaluation** Yearly conduct an Academic Return on Investment review of technology equipment, applications, and infrastructure to ensure we are operating as efficiently and effectively as possible:____	***Cost:*** **Measurement/Evaluation** Yearly conduct an Academic Return on Investment review of technology equipment, applications, and infrastructure to ensure we are operating as efficiently and effectively as possible:____	***Cost:*** **Measurement/Evaluation** Yearly conduct an Academic Return on Investment review of technology equipment, applications, and infrastructure to ensure we are operating as efficiently and effectively as possible:____
3	Review district technology-related policies and administrative procedures to reflect current needs	Margot Hansen/Chuck Keller/Dave Kreft/Mindy Chevalier/Liann Hanson/Kim Dewitte		***Cost:*** **Measurement/Evaluation** Every year review technology policies and administrative procedures to keep them relevant and meeting the needs of providing a 21st Century Education:____	***Cost:*** **Measurement/Evaluation** Every year review technology policies and administrative procedures to keep them relevant and meeting the needs of providing a 21st Century Education:____	***Cost:*** **Measurement/Evaluation** Every year review technology policies and administrative procedures to keep them relevant and meeting the needs of providing a 21st Century Education:____

Districts One-to-One
MDE Report on 1:1 District