

TECHNOLOGY PLAN – 2018 THROUGH 2020

- Executive Summary

Lewistown Public Schools has been constantly evolving their Technology Plan that has been hindered by turnover at the Director's position and with no real plan for sustainability while endorsing the idea that curriculum drives technology and not the opposite. This plan is for three years, 2018-2021, because of the continual, rapid changes in technology and includes continuous evaluation. The first step in creating sustainability is in the re-structuring of personnel and hiring Scott Baldwin as the Technology Director and John Jensen as the Regional Technology Director. The biggest improvements and the most pertinent improvements are in the District's infrastructure – rebuilding the logical routing of the network, centralize and consolidate servers (we will go from 13 servers to 4), and rebuild the Active Directory. The plan emphasizes using technology to increase student engagement through relevant, meaningful activities and using technology to drive teaching strategies, thus increasing student achievement. We believe this Technology Plan will create more opportunities for personalized learning, create more collaboration among students, and more project-based learning. It is our hope that students become problem seekers and not just problem solvers. The Plan also emphasizes a commitment to professional development for our teachers.

- Major Recommendations (First Phase)

- Rebuild logical routing of Network
- Centralize and consolidate Servers (13-4 Servers)
- **Cloud Migration to Google Apps for Education** for email & collaboration
- **Data Center Server Overhaul & Virtualization** – hardware, software, switches, network & wireless upgrade, Centralize Print Server, Antivirus, backup & disaster recovery, Filters **Staff**
- Active Directory Maintenance or Rebuild
- Utilize Category Two ERate

- Minor Recommendations

- Mobile Device Management and Volume Purchase programs
- Automatic Windows Updates
- Software Deployment Program
- Infinite Campus
- Email and Calendar Collaboration
- Projectors (Brightlink?)
- VLAN's?
- Student Accounts
- Unused Wired Network Jacks?
- Hardware and Software acquisition and approval list and/or process or "prototyping" system

- Refresh Strategy “tier system”
- Rotate Servers every 5 years & Routers and Switches every 7 years
- Start Technology Inventory List for each building (Projectors, Document Cameras, SmartBoards, TV’s, printers, desktops, laptops, Chromebooks)

- Goals & Strategies

Goal Area 1: Academic Excellence

Promote student learning through a rigorous curriculum, high expectations, effective instructional strategies and meaningful assessments. We will continue to involve students in their own learning and goal setting. We will provide professional development to ensure effective strategies are being implemented and we will set high standards for all students, while providing supports for students at all levels.

Goal Area 2: Student Readiness for College, Career and Life

We believe it is our responsibility to provide programs and services that ensure our students are prepared for the next step in life. In addition to having a strong academic program, we promote the importance of citizenship, character, work ethic, empathy, resiliency, and collaborative communications skills. To that end, we will provide a rigorous, relevant and diverse curriculum. We will prepare students with the skills and knowledge they will need to deal with challenges in life. We will increase student awareness of options after leaving our school system. We will increase student internships, apprenticeships, job-shadowing and vocational readiness. We will focus on life skills and incorporate these life skills into the curriculum at an early age, model them and reward them.

Goal Area 3: Positive School Climate

We believe that a positive school climate puts students in a position to be their best every day and that schools should be welcoming to every student, parent and community member. We will recognize students who demonstrate positive behaviors and honor student accomplishment. We will promote respectful interactions between students. We will continue our mentor program and advocate to make it bigger and better. We will continue to seek student input and engage students in discussions about school climate. We will encourage strong connections between students and staff. We will improve communications between parents and teachers to increase understanding of our students’ home situations. We will strive to improve educating students on appropriate communications via technology and face-to-face conversations. We will recognize exemplary practices and achievements of staff. We will listen and support staff when they have suggestions, complaints, or concerns. We will work to provide competitive salaries, benefits, and teaching conditions.

Goal Area 4: Technology

LPS will effectively incorporate technology into the curriculum and other school operations. We will update our infrastructure to support the technological needs of

staff, students, parents and community. We will provide continuing professional development to effectively integrate technology into the classroom. We will promote technology literacy and teach ethical/appropriate uses of technology. We will teach students how to find reliable sources of information. We will work diligently to become a District-wide 1:1 device-to-student school district. We will use technology to improve the efficiency of district operations.

Goal Area 5: Community Engagement and Support

Lewistown School District has worked really hard in partnership with the community and, as a result of these efforts, we believe the community views our public schools in a positive light. The community understands that its support of our programs and services is vital to the success of our students. We will be proactive in frequent, open and honest communications about the school district. We will showcase academic, co-curricular, and extra-curricular accomplishments. We will engage in strategies to invite community input. We will promote school events and activities through a variety of sources. We will strive to tap into the expertise and skills of our community members to enhance the educational opportunities for our students. We will demonstrate our own pride in our schools often and through a variety of methods.

- **Professional Development**

- **Cloud Migration to Google Apps for Education** for email & collaboration
- **Professional Development** – “Basic Comfort” need & in-class integration, Professional Development Sessions and Review Filter Practices, Help Ticket System
- **Develop Technology Curriculum**

- Needs Assessment

A comprehensive Needs Assessment was conducted by Schoolhouse IT with cooperation from Scott Baldwin, Technology Director and John Jensen, Regional Technology Director. The Needs Assessment is available upon request. We believe each building should also conduct a Needs Assessment especially using a Requirements Driven Approach and with the idea of what does each building need for tools to reach our goals.

- **Cost Analysis**

- Utilize Category Two eRate more appropriately. (\$179,000 for networking hardware, software, and installation/configuration)
- Needs Assessment – “What do we need tools to do in our organization?” Requirements driven approach
- The proposed budget will probably need to be supplemented by the General Fund for the work that needs to be

accomplished. However, this is a beginning and will provide guidance in tweaking our budget.

Building	Enrollment	Per ANB	EL Building Allocation	FHS Building Allocation	Total
Garfield	196	\$55.00	\$10,780.00		\$10,780.00
Highland Park	276	\$70.00	\$19,320.00		\$19,320.00
Lewis & Clark	191	\$60.00	\$11,460.00		\$11,460.00
Lewistown Junior High	153	\$75.00	\$11,475.00		\$11,475.00
Fergus High School	339	\$80.00		\$27,120.00	
TOTAL BUILDING ALLOCATEED			\$53,035.00	\$27,120.00	\$80,155.00
RESERVED FOR INFRASTRUCTURE BUDGET			\$8,112.63	\$26,005.05	\$34,117.68

- Evaluation Process