

HOPE-PAGE SCHOOL DISTRICT #85

District Technology Plan

2023-2026



Name of school district:

Hope-Page School District #85

Technology Planning Process

The Hope-Page School District #85 recognizes the importance of technology in education. This plan serves as guidance to Hope-Page School District #85 educators, school leaders, and other stakeholders in planning for educational technology. The purpose of the technology plan is to identify goals, strategies, timelines, measures and rationale that the district will use in supporting the use of technology within the district.

The Hope-Page School District #85 technology plan included the review of the North Dakota Educational Technology Plan. The plan implemented by the Hope-Page School District #85 will be consistent with the state plan, ND Library/Technology Literacy Standards, Every Student Succeeds Act (ESSA), North Dakota Education Technology Council.

A technology committee consisting of teachers, technology staff, administrators, school board members, parents, and students is responsible for the development of the technology plan. Input is given to the committee through different interviews and meetings with administration, staff, board members, parents, students, and community members. Recommendations are made based on this input gathered as well as observations of students, classrooms, teachers, and direct requests from staff members.

The technology planning committee was comprised of the following members.

-Superintendent/High School Principal Ian Grande	-Elementary Principal/Assistant Superintendent – Heidi Kingston
-Technology Coordinator Brent Jacobson	-Media Specialist Coralie Kainz & Nichole Kleven
-Teacher Jonah Wolla	-Teacher Adra Johnson
-Teacher Angel Lindseth	-Teacher Chad Kianz
-School Board Member John Ihry	-School Board Member Rita Kainz
-Parent Hannah Erickson	-Teachers Austin Dvirnak & Alex Holen

The technology plan is created by the Technology Committee and is then submitted to the Hope-Page School District #85 School Board for approval. The technology plan is available online for staff, parents, students, and community members.

School Technology Vision Statement:

The Hope-Page School District #85 recognizes that the planned use of technology is an integral part of education and society. The District is committed to providing students with the opportunity to develop lifelong learning skills through the use of technology. It is our plan that by integrating technology into our curriculum, all staff and students will acquire the knowledge of



how to use a variety of technology tools that will help them obtain information in a timely manner, analyze and synthesize information found, and present it in a professional and meaningful manner.

Goals for Educational Technology at Hope-Page School District #85

<i>Page</i>	<i>Goals, Rationale, Strategies, Measures, Timeline</i>
2	Goal 1. Hope-Page School District #85 will ensure that our students and staff access current technology resources to meet their educational needs.
3	Goal 2. Schools will create and maintain learning environments that include effective technology resources for educators and students.
5	Goal 3. Educators will use appropriate technologies to improve their teaching and other professional practices.
6	Goal 4. Educators will provide students with technology-rich learning opportunities.
7	Goal 5. Schools will employ technology systems that help improve classroom practice by assessing and monitoring student achievement.

Goal #1:

Hope-Page School District #85 will ensure that our students and staff access current technology resources to meet their educational needs.

Strategies	Measure	Timeline
The Hope-Page School District #85 will communicate clear goals for teaching, leading, and learning that are facilitated by technology.	Policies and resources will be made available by the district to equip teachers with the right tools and ongoing support to personalize learning in their classrooms.	Annually
The Hope-Page School District #85 will use a team made up of diverse stakeholders to develop a clear vision for educational technology.	Stakeholders include students, teachers, administrators, parents, and school board members. The district educational technology plan will be approved by the Hope-Page District #85 School Board.	Annually
The Hope-Page School District #85 will communicate the vision for educational technology to stakeholders.	The district technology plan is published and available for stakeholders to access from the district website and will be shared with stakeholders at the beginning of each school year.	Ongoing with Annual Review



Strong leadership is required to create a shared vision that includes all members of the community. Learning is not transformed by technology alone; the technology helps enable transformative learning.

The International Society for Technology in Education (ISTE) standards “work together to support educators, students and leaders with clear guidelines for the skills and knowledge necessary to move away from the factory model.”

Clear expectations are required to take Hope-Page School District #85 educational technology vision and put it into practice in the classroom. School administrators and the technology committee play a key role in communicating the vision to stakeholders and setting expectations for translating that vision into practice. Educators are expected to embrace the vision and integrate technology as a resource in ways to support every classroom.

Goal #2:

Schools will create and maintain learning environments that include effective technology resources for educators and students

Strategies	Measure	Timeline
The Hope-Page School District #85 will continue to provide broadband connectivity, Internet access, video conferencing and other networking services.	All state agencies, colleges and universities, local government, and K-12 are required to participate in STAGEnet.	Annually
The Hope-Page School District #85 will continue to provide one-to-one computing in order to provide equitable access.	The device to student ratio in PreK-12 is 1:1.	Annually
The Hope-Page School District #85 will continue to provide the resources such as learning technologies, staff, time, funding, materials, and training needed to support the implementation of educational technology.	District funds are used to provide access to educational technology throughout the building. The district employs one fulltime technology coordinator.	Annually



The Hope-Page School Districts will provide a robust technology infrastructure that supports teaching, learning, and operational needs. The following resources enable and support 21st Century learning and productivity.

Network Infrastructure

- 100Mbs connection provided by STAGEnet.
- All classrooms have at least 1-2 wired connections in Hope and Page.
- Wireless network access is available through both Building in Hope and Page.
- POE switches
- Fiber connection between MDF and IDF closets. Fiber connection between main school building.

Instructional Technology

- The district maintains a 1:1 student: computing device ratio.
 - PreK-3 has 1:1 access to iPads
 - 3rd-6th has 1:1 access to ChromeBooks
 - 7-12 has 1:1 access to a laptop and a cart of 30 ipads to check-out.
- The district issues each staff member a laptop.
- PreK-6th grade has a computer lab of 21 computers.
- 7-12 grade has access to a computer lab of 8 computers
- K-6 grade levels, Title I, and Tech Ed are equipped with a document camera.
- All instructional areas are equipped with interactive boards, projectors
- All instructional areas are equipped with a classroom audio system.
- Two videoconferencing units are available for distance education or other interactive events.
- Screen printing and vinyl equipment available in Technology and Engineering department.

Other Technologies

- IP based bell and PA system
- IP based phones in selected rooms and meeting spaces
- Security camera systems; building cameras and currently cameras in 2 of the buses
- 2 Windows servers 1 in each Location
- 4 printer/copiers, 2 colored laser printers, 2 black and white laser printers, and 2 3d printer. Various Local Printers throughout the Buildings
- Door and motion security
- Digital outdoor sign
- District software.



- Building automation in the area alarm monitoring, lighting, kitchen fridges/freezers, and heating and cooling

Goal #3:

Educators will use appropriate technologies to improve their teaching and other professional practices.

Strategies	Measure	Timeline
The Hope-Page School District #85 will endorse the ISTE (International Society for Technology in Education) NETS (National Educational Technology Standards) as a guide to help measure proficiency and set goals in educational technology.	Standards will be available to educators, teachers, and stakeholders and be referenced during tech planning and system wide changes.	Annually
Educators will ensure that student/teacher use of technology is authentic and curriculum-based while also involving teamwork, collaboration, and communication.	Administration will assess technology integration proficiency during annual teacher evaluations.	Annually
The Hope-Page School District #85 will make professional development available to educators that meet the technology skills and integrations needs as identified in the school wide plan.	District school wide plan identifies technology as a means to achieve district goals.	Annually
Hope-Page School District #85 educators will keep up to date with digital citizenship skills to lead and model for students.	Educators will follow the district digital citizenship curriculum.	Annually

Technology and curriculum committees will encourage the integration of educational technology with guidance from the International Society for Technology in Education (ISTE). The district will obtain and align resources (such as time, funding, staff, professional development, materials, learning technologies, etc.) to achieve the vision, mission, and goals of seamlessly integrating technology into the curriculum.



Goal #4:

Educators will provide students with technology-rich learning opportunities.

Strategies	Measure	Timeline
Technology will be provided to enhance and support instructional strategies to support all learning styles. Assistive/adaptive technology will be available to meet the educational needs of all students.	Needs will be identified through teamwork of the teachers, administrators, the special education department, and the technology department.	Ongoing
Our Technology Education program will focus on using technology to solve problems and create opportunities.	Completed projects.	Ongoing
The Hope-Page School District will integrate computer science and cybersecurity standards into the core curriculum.	The district will implement a computer science/cybersecurity plan in grades K-12.	Annually
The Hope-Page School District #85 will use online and blended learning to give students more learning opportunities to enhance a creative growth mindset.	The district implements a variety of technology to students in grades K-12.	Annually
The students of the Hope-Page School District #85 will be taught digital citizenship skills throughout their subject areas.	Students will follow the district digital citizenship curriculum.	Annually

Classrooms are equipped with a multitude of technologies. Technology is infused into teaching and learning by providing each student with access to a device along with a Google app for education account. The Hope-Page School District #85 recognizes that teaching practices should drive technology use instead of technology driving the practice of teaching. Professional Learning Communities have been formed giving educators the opportunity to discuss content



area improvement and technology as a tool to support this. Needs will constantly be assessed as educational technologies emerge.

Goal #5:

Schools will employ technology systems that help improve classroom practice by assessing and monitoring student achievement.

Strategies	Measure	Timeline
The Hope-Page School District #85 will assist educators in implementing student information and other school data systems that help track achievement and allow analysis necessary to differentiate instruction in order to better meet the needs and improve learning outcomes for all students.	The district uses an electronic student information system and assessment programs to document data.	Ongoing

The Hope-Page School District #85 uses State Approved Assessments to determine student academic achievement. Testing results enable teachers to meet the needs of each individual student.

The Hope-Page School Districts participates in the State Automated Reporting System (STARS). STARS is DPI’s primary means for collecting data from the school districts for federal and state reporting. The district is a member school of the North Dakota Statewide Longitudinal Data System (ND SLDS). The DPI STARS program is designed primarily for “one way” data collection and used to comply with federal and state reporting requirements. While STARS contains a wealth of K-12 data, it is not readily accessible to outside stakeholders. SLDS stores current and historical data from K-12, higher education, and workforces giving decision makers access to readily available data to make well-informed decisions.

The Hope-Page School District #85 participates in the Special Education Case Management System. Individualized Education Programs (IEP’s) are currently available in this system (TIENET).

Students in grades 3,4,5,6,7,8 and 11 are assessed with an online test for North Dakota Standards Assessment North Dakota approved assessment.



Acceptable Use Guidelines:

One to One devices @ Hope-Page School District #85

- Each student will be provided a device and software owned by Hope-Page Schools District #85. Each student will pay a technology fee in 7-12 for this device. Elementary technology fees are included in the student fees. The device will be returned at the end of the school year or when the student is no longer enrolled at Hope-Page School District #85. This fee will not be refunded or prorated for any circumstance.
- Hope-Page School District #85 will supply an approved backpack or case to carry the device, or will need permission to bypass and use their own.
- The device will be carried in the backpack at all times. devices are not to be left unattended. Students will have their device with them at all times, or locked in their locker. The student is responsible in case of theft. Faculty will return unattended laptops to the office.
- Data backups are the responsibility of the student. Each student will retain a folder or cloud drive on the server or state network, referred to as their home directory, which they can use for data backup. In the event of troubleshooting a laptop or device, it is likely the repair staff will choose to simply reimage the device hard drive, causing all data and user installed programs to be lost.
- Devices will retain identical content filtering rules away from the school as the student has while at school. Students are subject to school discipline for inappropriate laptop-device use off campus. Students will comply with the district technology acceptable use policy.
- Each device is covered by a manufacturer warranty, which covers manufacturer's defects in materials and workmanship for a period of 3 years from the date of purchase of the machine. Intentional damage, lost or damaged power cord, or damaged laptop batteries are not covered and is the responsibility of the student/parent and the family may be assessed a charge up-to full replacement cost, depending on the circumstances surrounding the incident.

Before a student is issued a laptop, he or she must have:

1. *Paid the appropriate district technology fee.*
2. *Signed the acceptable use guidelines form.*

Computer Network & Internet Use Guideline

In order for a student to gain access to the internet or network, the individual student must have parental/legal guardian permission. Parents/legal guardians will be given the option of denying internet access and requesting alternative assignments that do not require internet/network usage. All students must sign an Internet Network Access Agreement. Failure to do so will result in the internet/network being denied.

Students shall have no expectations of privacy when using district email or computer systems. E-mail messages shall be used only for approved educational purposes. Students must use appropriate language in all messages. Students are expected to use the system following guidelines approved by teachers or the administration.

Any e-mail, computer application, information in district computers, or computer system is subject to monitoring by the staff and/or the administration. The school retains the right to duplicate any information created by students in a computer system or on any individual computer. Students who violate these rules, or any other classroom rules relating to computer use are subject to disciplinary action up to and including suspension from school.



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Please remember that use of the internet/network is a privilege, not a right. Students violating policies pertaining to the standards of conduct regarding internet use will be subject to the following:

1. Restriction or loss of network/internet access for an undisclosed period of time deemed appropriate by the administration.
2. Disciplinary or legal action including, but not limited to, suspension or expulsion from school and/or criminal prosecution under appropriate local, state and federal laws.
3. Restitution for the cost of damages to hardware/software.

Inappropriate use of the internet/network will include, but not be limited to the following:

1. Use of any method to bypass the district's content filtering policies.
2. Accessing, uploading, downloading or distributing pornographic, obscene, or sexually explicit material of any kind.
3. Accessing, uploading, downloading or distributing music or electronic files of any kind.
4. Transmitting obscene, abusive, sexually explicit or threatening language.
5. Accessing another individual's materials, information, or files without previously being given permission.
6. Using or attempting to discover another's password.
7. Violating copyright or using the intellectual property of another individual or organization without their permission.
8. Vandalizing, defined as any unauthorized access and/or malicious attempt to damage computer hardware/software or networks. Also, including the destruction or attempt to destroy the data of another user by creating, uploading, or intentionally introducing viruses into the network/internet.
9. Intentionally wasting limited resource and storage space.
10. Harassing, insulting, or attacking others.
11. Using, disclosing, or disseminating personal information on line, such as full name, home address, phone number etc...., except with the pre-approval of certified staff or the administration.
12. Using e-mail lists from the district, network or server to gain personal information about other individuals.
13. Gaining unauthorized access to resources or entities.
14. Invading the privacy of others.
15. Improperly and/or intentionally altering the set-up of computers as determined by administration. This includes, but is not limited to; desktops, wallpapers, screen savers, shareware or any installed software.
16. Using software that has not been pre-approved or assigned by staff or administration.
17. Seeking to gain or gaining unauthorized access to the network, software, internet or computer devices.
18. Failure to follow district policy, building policies and guidelines, or any other policies established by the board of education, building administration, or certified staff designed to prevent computer, internet or network usage.
19. Any issue the administration deems as inappropriate use.

See board policy for further guidelines.



Hope-Page School District #85 Refresh Plan/Tech Replacement Plan

The Hope-Page School District #85 Refresh Plan/Tech Replacement Plan provides the staff and students with basic technology resources. The plan provides a reasonable refresh of technology so teachers, staff and students can support and educate within Districts.

We do see PC's and Laptops replaced on average between the 3rd and 5th year of use and more often than not, they are replaced due to slow performance or lack of computing power for new software. You may also want to replace your PC proactively rather than wait for a failure, which can be harder to retrieve and transfer data. That may come on a case-by-case basis.

Hope-Page Schools District #85 is implementing guidelines for replacing laptop computers on a three (3) year cycle as allowed by funding and as dictated by the Districts lease agreement. After three years, the devices will be evaluated on an annual basis. Desktop or Lab computers are on a five (5) year cycle.

We have general replacement cycles for most of the tech equipment, we support, but we do evaluate the equipment when it is due on the cycle for replacement to see if it is still in good enough shape to hang onto for another year.

In general:

- Student 1:1 devices, replace every 3-5 years. We use ASUS/Bytespeed laptops with protective cases and 3-year lease program with ASUS/Bytespeed, which is up in 2024.
- I pad's in the Elementary every 4-6 years. Older devices will be replaced before newer devices.
- Apple is starting to build obsolescence into their models where you cannot update OS. Those models will be replaced first.
- Staff devices, replace every 3-5 years or as needed.
- Active Panels, replace every 7-10 years. The technology is changing enough that after 7 years the Active Panel is likely to be limiting the teacher if not replaced.
- Printers, only as needed. Most recent update was 2020.
- Access Points, we are replacing about every 6-10 years in both schools. In many cases, the replaced secondary building devices will replace older APs in the elementary schools.
- A New Wireless System was implemented and upgraded during the summer of 2024.
- DVR and camera systems Updated Fall of 2022, with upgrades added as needed.
- Phones are being upgraded as needed.
- Older equipment that is obsolete and in non-working order will be discarded.



Strategic Priority – Technology

Hope-Page School District #85 recognizes the planned use of technology is an integral part of education and society. The district is committed to providing students with the opportunity to develop lifelong learning skills through the use of technology. Staff will implement technology throughout the curriculum to ensure all stakeholders will acquire the knowledge of how to use a variety of tools. The district also recognizes the need for long-range planning to ensure the sustainability of school's technology infrastructure.

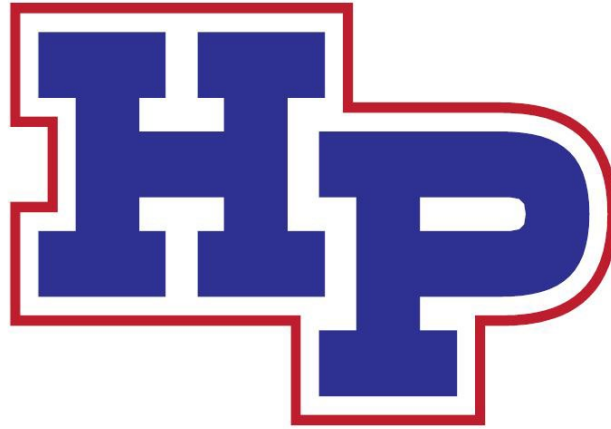
Goal: To ensure that our students and staff have access to current technology resources to meet their educational needs.

Objectives

- Continue to provide 1:1 student devices in grades PK-12
- Provide training to staff, as requested by teachers and technology committee
- Educate students and staff on being responsible digital citizens while promoting media literacy
- Teach students to be proficient with technology
- Create opportunities/exposure to different resources and platforms using technology
- Facilities equipment are current
- Review/Update district long-range technology plan annually

Progress Monitoring

- Device rotation schedule, set up by tech committee – part of completed technology plan
- Updates and improvements, to technology infrastructure, will be presented to tech committee, on a yearly basis – part of completed technology plan
- Feedback from students, staff and tech committee
- Student Engagement Survey results
- Choice Ready data
- Teacher evaluations
- Other...



Hope-Page School

Computer Science & CyberSecurity Integration Plan

2024



1) Introduction

On March 24th, 2023 Governor Burgum signed [HB 1398](#) into law, which mandates the teaching of computer science and cybersecurity, as well as the integration of these content standards into K-12 school curricula. Beginning in the 2025-26 school year, high school students will be required to complete a course in either computer science or cybersecurity to graduate, OR they must have actively participated in coursework that integrates these standards.

Our district is committed to integrating computer science and cybersecurity into its K-12 curriculum to comply with new state mandates. The district's strategy involves a comprehensive approach from kindergarten through 12th grade, focusing on digital literacy, safety, and innovation. The integration plan provides a big-picture view of how our school district plans to meet the state's requirements for teaching computer science and cybersecurity.

2) Considerations for Integration

To support an integrated approach at the elementary level, our school will follow a basic pathway. Standards will be integrated into existing subjects, along with the support of Specialists where CCS standards did not align with existing subjects.

At middle school and high school levels, a transitional period through the class of 2026 will evaluate methods of delivering the CCS standards through existing courses, or as a standalone course(s) in the district. The District will also look at the possibility of utilizing both the Center for Distance Education and Regional Career and Technical Centers.

Timeline of Action Steps of Technology Stakeholders:

2024-25

- CCS standards alignment to existing coursework
- Modify existing schedule to accommodate changes at MS and HS
- Evaluate the effectiveness of using integrated approach
- Provide a crosswalk document and evaluate existing alignment and focus strategies for disciplinary literacy across different subjects.
- Explore CDE and CTE options for standalone course opportunities
- Provide ongoing staff development

2025-26

- Evaluate options for a Guaranteed and Viable Curriculum
- Train and Potentially Certify additional staff to support development of full implementation
- Provide ongoing staff development
- Embed implemented plans into school improvement cycle
- Finalize the decisions of the Integration Plan to full implementation status
- Curriculum Adoption
- Provide ongoing staff development

3) Implementation

- Elementary School
 - K-2
 - 3-6
- Middle School
 - 7-8



- High School
 - 9-12
- Opportunities for Students
 - [ND Skills For All](#)

[Center for Distance Education](#)

- [Career & Technical Education Centers](#)
- Opportunities for Staff
 - [ND Skills For All](#)
 - [EduTech Offerings](#)
 - Regional Education Associations
 - State Colleges and Universities
 - [Code.Org](#)
 - [Common Sense Media](#)
 - Professional Conferences
 - NDATL
 - IgniteND
 - CSTA

4) School Board Approval and Compliance

To comply with the requirements of HB 1398 requiring approval by June 30, 2024, the Hope-Page board will begin to examine and approve the CSS integration plan at the regularly scheduled April board meeting. The presentation at the April meeting will provide the board an opportunity to examine, offer feedback, and decide on the proposed integration. This approval will set a timeline for the district to adapt curriculum, training, and graduation requirements to complete full implementation.



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