Ellicottville Central School

Instructional Technology Plan

2018-2021

Shawne Hunt
District Technology Facilitator

Ellicottville Central School

5873 Rt 219

Ellicottville, NY 14731

(716) 699-5034

Fax: (716) 699-5423

shunt@eville.wnyric.org

ACKNOWLEDGEMENTS

This Smart Schools Investment Plan was made possible by the support, cooperation and dedication of many members of the school community:

The Ellicottville Central School Board of Education - whose ongoing approval and support have made the implementation of technology education at Ellicottville Central School a success.

The Ellicottville Central School Faculty – members who have accepted the challenge of implementing the constantly changing technology as well as offering their concerns and suggestions by completing the surveys upon which this plan is based.

The Ellicottville Central School Smart Schools Committee, an ongoing committee dedicated to research and implementation of technology in all phases of our curriculum. Stakeholders include:

Robert Miller, Superintendent
Erich Ploetz, MS/HS Principal
Maren Bush, Elementary Principal
Bill Murphy, School Board Member/Parent
Carl Calarco, School Board Member/Parent
Alice Alessi, Speech Therapist
Ann Chamberlain, Mathematics
April Donoghue, 3rd Grade
Chris Edwards, Technology
Helena Brierton, Science
Pam Illig, Library Media Specialist
Shawne Hunt, District Technology Facilitator
John Pfeffer, Parent
Alex Hunt, Student

Technology Mission Statement

Ellicottville Central School will guarantee that all students will achieve their highest level of competence through a success-oriented education that will ensure quality graduates.

Technology Vision

The learning community at ECS will be technologically aware and literate life-long learners who are challenged to reach beyond the current technologies to achieve personal, educational and workplace goals.

Technology Mission and Goals

The technology mission of Ellicottville Central School is to provide this education with the aid of technology that will accomplish the following goals:

Goal #1 – ECS will have staff and students that are technologically literate.

- Enhance the development of the whole child through a dynamic technologically integrated curriculum that encourages exploration and life-long learning.

- Utilize technology in an active, student-centered learning environment to enhance problem solving, critical thinking and collaboration skills.

- Enhance present teaching styles and creative management through ongoing staff development.

Goal #2 –

- Promote the utilization of technology for communication and information retrieval.

Goal #3 -

- Provide up-to-date network infrastructure and equipment to meet the needs of all stakeholders in the District.

Goal #4 –

- Prepare students for today's workplace and the workplace of the future. We have a large population of students that are not served with high speed internet at their homes, therefore many students rely on school for their internet usage.

Goal #5 -

- Maintain and update technology use guidelines and procedures to address emerging technologies and changes in District policy.

Goal #6 –

- Maintain a server room with current equipment to meet the curricular and administrative needs of the District.

Classroom Technology

The Ellicottville Central School District (ECSD) will use approximately $30,000 of the Smart Schools Bond Act funds allocated to ECSD ($343,647) to purchase ClearTouch Interactive Boards for every classroom in the District. This 65" LCD offers 10 points of touch, an optional integrated PC running Windows 10, and plenty of ports to plug in any peripherals required within the classroom. This one product will combine the Interactive Board, TV and Projector all into one unit.

ECS Instructional Technology Plan

ECS plans on using the above mentioned technology to fulfill the action plans previously submitted to NYSED. The integration and use of technology as an instructional tool and resource will continue to be encouraged in all academic areas. Providing the administrators, teachers, staff, and students with the best tools available will enable them to perform their respective tasks more effectively and productively. In addition to the rich academic preparation the students will receive in each subject area, they will also become more aware of the technology tools available to support information access, analysis, synthesis, management, and communication. The school district will use these interactive boards along with the Internet and distance learning to improve student learning outcomes by delivering learning "resources" unavailable otherwise. Technology will be integrated into curriculum and learning activities aimed at improved student learning and attainment of the New York State content and performance standards.

Students with Disabilities

These interactive boards will be used to promote the varied types of learning as well as learning styles and abilities present in our classrooms. Software selected for instructional purposes that will be used on these boards must take into consideration curriculum goals, teaching styles at the various levels, and learning styles and abilities of all students.

Technology and Infrastructure Inventory

The current technology infrastructure will support adding on these interactive panels. We currently purchase our primary internet access bandwidth services from Erie 1 BOCES. The current network broadband bandwidth for incoming connection TO our school district (WAN) is a 1GB connection. The current network broadband bandwidth for connections WITHIN our school district (LAN) is a 2GB connection. The following wireless protocols are available in the district:

802.11a, 802.11g, 802.11n, 802.11ac, 802.11ad and 802.11af. Currently 100% of our instructional space has wireless coverage provided by wireless access points. We use a wireless controller and the port speed of our switches is 1GB.

Professional Development

The Ellicottville Central School, through its Professional Performance Review Plan, will strive to assist all professional personnel (professional personnel /nurse /assistants) in acquiring the knowledge and skills needed to help each student pursue their full potential as life-long learners and respectful citizens. The following premises are used in the Professional Performance Review of all professional personnel:

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1. Effective teaching and successful learning occur when professional personnel are skilled in employing a variety of strategies, management techniques and assessments and share the information with students and other professionals.
2. Conduct is an ongoing dedication to the education process within the classroom and in support of the learning environment.
3. Demonstrates professional growth in a variety of ways.
4. Promotes and exhibits care for the facilities and the place our school has in the community.
5. Reflect on their performance to improve student achievement.

The Ellicottville Central School District and the Ellicottville Teacher's Association recognize that we are engaged in a common enterprise and that we have a shared commitment both to improving the quality of teaching and learning and to the educational success of each student. Teacher training and professional development in technology play a key role in its ultimate acceptance and use in the classroom. Research indicates technology planning must address comprehensive and continuous professional development to ensure success. Multiple levels of training and staff development must be offered to teachers and administrators so they feel empowered to use technology to facilitate their own productivity.

The availability of diverse professional development opportunities is important to address the needs of all staff within the district; however, this spectrum of diversity should be orchestrated to move all staff toward common goals. Technology-related professional development requires curriculum integration skills, as well as operational and technical skills. Professional development programs prepare the teaching staff to effectively deliver integration of content objectives,

process skills, and technology competencies appropriate to the grade level, subject area, and/or course in which students are engaged. Successful integration will require more specific definition of those elements to be integrated. Curriculum in some areas will need upgrading to identify the basic information, performance standards, and technology linkages that education reform priorities dictate as essential outcomes for students.

Goals for Staff usage of telecommunications and information technology to improve student academic achievement include:

- To become familiar with multimedia presentation software and interactive whiteboards as a priority teaching/learning technique.
- Develop K-12 aligned & articulated curriculum in all content areas using EngageNY.
- Improve external communication.
- Improve internal communication.
- Having a technology integrated curriculum.
- Stay up to date on the latest technology.

School district staff members now participate in a variety of professional development programs sponsored by the BOCES and/or the district. In addition to improved and expanded professional development provided directly from the BOCES, services are provided linking other professional development resources such as colleges and universities, nonprofit agencies, government agencies and businesses including:

*Alfred State	*Alfred University	*Buffalo State	*SUNY at Buffalo
*ECC	*GCC	*Houghton College	*JCC
*Erie #1 BOCES	*Erie #2 BOCES	*Southern Tier West	
*NYS VESID	*Apple Computer	*ClearTouch	*CA BOCES

In reference to the new interactive boards, the Technology Coordinator and the AV Coordinator will be responsible for training the teachers on use and maintenance. The life span of these boards is estimated to be 40,000+ hours of instruction (over 20 years of classroom use). When end of life occurs, the Ellicottville Central School District will reevaluate the latest technologies and come up with a replacement plan.

ClearTouch

PRODUCT SPECIFICATIONS

65" 7000X Series

65" Panel Specifications

Size	65"
Panel Type	IPS
Aspect Ratio	16:9
Display Area	56.34" x 31.62"
Resolution	3840(H) x 2160(V) Ultra HD
Pixel Pitch	.372mm x .372mm
Back Light Unit	Direct type LED
Response Time	8 ms
Refreshing Frequency	60 Hz
Display Color	1.07B (10bit)
Brightness	350 cd/m2
Contrast Ratio	1200:1
Viewing Angle	178°
Life Time	30,000 Hours

7000X SERIES INTERACTIVE PANELS

The all-new 7000 Series with PCAP technology for superior multi-touch control.

- BIG VIEWING EXPERIENCE
- BEAUTIFUL PICTURE
- RICH AUDIO EXPERIENCE
- INTUITIVE TOUCH EXPERIENCE
- TRUE INTERACTIVE EXPERIENCE
- INTEGRATED SOFTWARE OPTIONS

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PANEL AUDIO	
Sound Channel	2.1
Output Power	10W+15W x 2

PANEL CONNECTIONS	
HDMI Output	1
USB 2.0	4
USB 3.0	1
Touch Input	2
HDMI Input	2
VGA Input	1
Audio Input	1
AV Input	1
RS232 Port	1
Audio Output	1
RJ45 Port	1
SPDIF	1

PANEL INTERACTIVITY	
Sensing Type	Capacitive Recognition
Compatibility	Windows10/Windows8/Windows7/ Windows XP/Linux/MacOS X/ Android/Chrome
Touch Point	10 points writing/ 20 points touch
Minimum Object Size	4mm
Touch Tool	Finger/ Capacitive Stylus
Response Time	<20 ms
Accuracy	1 mm
Palm Rejection	Support
Pressure Sensitivity	Support
Colors and Pens Simultaneously	Support
Surface Hardness	Toughened Glass with Level 7 of Mohs Standard
Output Coordinate	32767 x 32767

PANEL OPERATING SYSTEM	
System Version	Android 7.0
CPU	A73x2
GPU	Mali 450x5
RAM	2GB
ROM	16GB

PANEL AMBIENT	
Operation Temperature	32°F - 104°F
Operation Humidity	10% - 90%
Storage Temperature	-4°F -140°F
Storage Humidity	10% - 90%
Altitude	Below 10404.2 ft

POWER	
Power Requirements	100-240V~ 50/60Hz
Standby Power	≤0.5W
Overall Power (nominal power)	300W

PHYSICAL SPECIFICATION	
Key Location & Number	Right side physical key
Dimension (HWD)	58.09" x 34.33" x 3.46"
Dimension (package) (HWH)	66.22" x 8.66" x 39.37"
Net Weight	66.44 lbs
Gross Weight	131.09 lbs
Machine + Wall Mount Thickness	5.28" CTI-MOUNT-R008
Wall-hanging Screw Spec	M8 x 25 mm
VESA	600 x 400 mm

ACCESSORIES	
American Standard Power Cord	Smart Pen
Remote Control	Quick Start Guide
USB Touch Cable (Type A-B)	

PC MODULE (OPTIONAL)	
Type	Type Detachable PC module
Model	CTI-PCMOD-PC35-ST - i5 CTI-PCMOD-PC35-IG - i5 CTI-PCMOD-PC37-IG - i7 CTI-PCMOD-PC37-VP - i7
CPU	Intel® Dual Core™ i5 Intel® Dual Core™ i5 Intel® Dual Core™ i7 Intel® Dual Core™ i7 vPro
RAM	DDR4 8GB | DDR4 16GB
SSD	128GB | 256GB
Graphics	Integrated Intel® HD Graphics Independent Intel® HD Graphics Independent Intel® HD Graphics vPro Intel® HD Graphics
Chipset	Intel H110 Express
Sound Card	Integrated High Definition Audio Stereo
Networking	10/100/1000M2
WIFI	802.11 a/b/g/n/ac (2.4G & 5G)
Bluetooth	Bluetooth 4.2

Operation System	Not Included	Earphone Output	1
USB3.0	0	Microphone Input	1
LAN(RJ45)	1	Display Port Output	1
VGA Output	1	HDMI Output	1

PANEL WARRANTY OPTIONS	
Standard	1 Year Onsite
Registered	2 Year Onsite
Optional	5 Year Onsite