TECHNOLOGY BOARD REPORT FEBRUARY 2022

Presented by:
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Technology Coordinator



TECH COACHES

- ☐ HS Emily Brockhaus
- MS Angie Smith
- **□** ES Carrie Christy

(See presentation)

DIGITAL CITIZENSHIP

Digital Citizenship

- All students K-12 are instructed in Digital Citizenship Skills & Internet Etiquette
- View the <u>Scope & Sequence for</u>
 <u>Digital Citizenship Curriculum</u>

By teaching digital citizenship and literacy we can empower students to think critically and participate responsibly in the digital world.

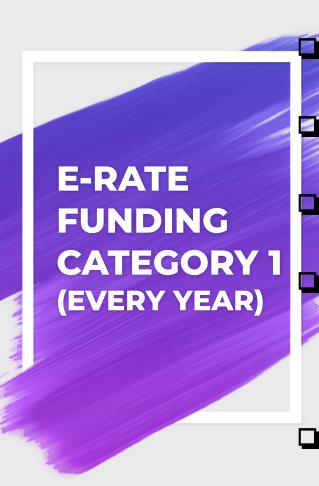
GRANTS FOR NEW TECH AND

TRAINING

DESE 50-50 CAREER ED GRANTS

- PLTW MS Medical Detective Training
- PLTW MS Science of Tech Training
- PLTW MS & ENG Supply Kits
- PLTW ENG Nikon AC-2S Auto Levels
- PLTW ENG 21 Laptops
- PLTW ENG 3-D Printer
- PLTW MS & ENG Interactive Panels
- AG Plasma Cutter
- AG Jobsite Saw
- □ AG Band Saw

- **■** ENG = Engineering
- MS = Gateway (Grades 6-8)



CATEGORY 1 - INTERNET (MOREnet)

- District receives automatic 76% E-Rate discount on invoices
- District increased bandwidth from 625Mb to 750Mb this year
 - MOREnet rates will DECREASE once again for the 2022-2023 school year.
 - District will increase from 750Mb to 875Mb immediately for ZERO cost for the remainder of this school year and annual savings of \$4
 - District has a 1G line capacity in order to increase bandwidth as the need arises.

E-RATE FUNDING (IN YEAR 2 OF 5 YEARS OF FEDERAL FUNDING)

CATEGORY 2: INFRASTRUCTURE

- District will have access to approximately \$192,000 in funding over the next 3 years (until fiscal year ending June 2026)
- CAT 6 Cable Runs for Grades 1 & 2 after drop ceilings are added.
 - Place the AP (WiFi) unit in the middle of the room which is the most ideal location for the best connectivity

E-RATE FUNDING (EMERGENCY ONE-TIME FUNDING)

2021-2022

EMERGENCY CONNECTIVITY FUND

- iPads (250) for Pre-K, Kindergarten, Grade 1 and Special Education
- MacBooks for HS Students Yearbook
- \$110,000 in funding (90% of total cost)

DEVICES FOR REMOTE LEARNING



RAPTOR VISITOR BADGES

- Integrated school safety software that enables schools to screen visitors, track volunteers, and contractors. Prints visitor badges.
- Instant Screening Screen every visitor against sex offender and other custome databases
 - Immediately alert administrative and security personnel if a visitor is identified as a risk.



TRAVERSA

- Implementation to begin Feb. 2022
- Manages school bus routing, fleet maintenance, and activity trips.
- Route buses
- Plan event trips
- Track work orders
- □ Schedule fleet maintenance
- Manage GPS data



SOUND SYSTEMS

- HS New Stage short-throw projector, large pull-down screen, 9 cordless/lapel mics, digital mixer for mics, portable sound system for cafeteria, outside
- MS New gymnasium sound system, digital mixer for mics, portable sound system for cafeteria, outside
 - ES New gymnasium sound system, digital mixer for mics, portable sound system for cafeteria, outside



CAMERAS & DOORS

- Use bond monies to add all digital (HD) security cameras throughout the district to replace obsolete analog
- Enhanced visibility and response with assistive AI and analytics
- Doors Recommend more access control panels throughout the district.
 - Recommend integrating the Avigilon camera and door software to provide alerts and notifications to admin/offices



CLASSROOMS

- **Macbooks** 100 New Teacher Macbook Airs purchased for teachers 2020-2021
- Apple TVs In All Classrooms Good
- APs (Wireless) 125 access points (APs) for WiFi 250 models. Recommend upgrading to 410/460/current models
- Document Cameras Continue adding one in each classroom.
 - PROJECTORS RECOMMEND USING BOND MONIES TO REPLACE PROJECTORS WITH INTERACTIVE PANELS CURRENTLY HAVE 10 INSTALLED IN CLASSROOMS/CONF ROOMS.



CHROMEBOOK ROTATION PLAN

- Elementary Grades 2-5 (4 yr rotation)
- Middle School Grades 6-8 (3 yr rotation)
- High School Grades 9-12 (4 yr rotation)

IPAD REPLACEMENT

- Pre-K, K, 1 iPads
- Recommend 4 yr replacement

WINDOWS DEVICES - 4 years

- Business/Executive Office (Central Office)
- Administrative Office Assistants
- Business Education Lab
- Classrooms streaming media
 - Servers Data, Camera, Intercom, etc.



DEVICE MANAGEMENT

- JAMF Apple School Mobile Device
 Management (MDM) Software manages
 all 350+ iPads and MacBook Airs devices
 (including teachers)
- Google for Education Suite Console manages all Chromebooks
- Active Directory / Windows device management
 - IT Remote software enables techs to add apps, updates and software that requires administrator credentials.

 Prevents users from downloading unauthorized software.

FILTERING & MONITORING SOFTWARE

MONITORS/ALERTS IN PLACE

- List of Approved Apps (IT/Curr)
- Education Framework* (IT/Curr)
- LightSpeed / Relay Classroom (T/IT)
- Google Admin. Console (IT)
- Gaggle Docs / Student Email (A)
- Sophos Firewall (IT)
- Sophos Anti-Virus (IT)
- A = Administrators / Counselors
 - **Curr = Curriculum**
 - IT = Information Technology
 - T = Teachers

* <u>Education Framework</u>

- → Student Data Privacy FERPA, COPPA, CIPA
- → Peace of Mind
- → K-12 Data Privacy Management Solution

FERPA, COPPA, & CIPA

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FERPA - The Family Educational Rights and Privacy Act

- FERPA requires that schools have written authorization from guardians to release information from students' educational records.
- This means that only with specific exceptions, staff cannot share student information with apps and websites without guardian consent.

COPPA - The Children's Online Privacy Protection Act

- COPPA places restrictions on software companies about the information they are able to collect about kids under 13.
- This means that students under 13 are not able to create their own accounts. In some cases, teachers may be able to create accounts for students; however, FERPA responsibilities still apply.

CIPA - The Children's Internet Protection Act

☐ CIPA mandates that districts take measures to filter internet access to protect students.



TECHNOLOGY & RISK ASSESSMENT (Recommended annually) Scan and physically assess network for cyber security vulnerabilities, out-of-date Windows operating systems, aging network computer equipment, out of compliance software and hardware, and other key technology assets. Avoids disastrous problems like ransomware, breaches, downtime, and other operational

issues/nightmares.



STAFF CYBERSECURITY TRAINING

- (Recommended annually)
- The BIGGEST DANGER IS COMPLACENCY
 - DO NOT underestimate the importance of addressing and protecting the district from threats.
 - Even GOOD Employees make mistakes: deleting files, clicking on phishing emails, innocently logging into a compromised website, using free and unsecured file-sharing applications

TOP 100 TECH SUPPORTED PROGRAMS (A - Z)



- ACTIVE DIRECTORY
- ADOBE CREATIVE CLOUD SUITE
- > AVIGILON CAMERAS
- AVIGILON DOOR ACCESS
- ➤ BELLS/INTERCOMS (ALL SYSTEMS)
- ➤ BLACKBOARD (WEBSITE)
- BOARD MEETINGS
- ➤ BRAIN POP
- CALENDARS (rSCHOOL)
- CABLE MANAGEMENT / NEW RUNS
- CLEAR TOUCH (INTERACTIVE DISPLAYS)
- CLEVER BADGES (K-1)
- COLLAGE (SOFTWARE FOR CLEAR TOUCH) >>
- CONNECTWISE (REMOTE MANAGEMENT)
- CORE DATA COLLECTION (STATE)
- ➤ DESE 50-50 GRANTS
- DESE ENHANCEMENT GRANT
- DESTINY (LIBRARY)
- DISASTER RECOVERY PLAN
- ➤ DIGITAL CITIZENSHIP
- DIGITAL SIGN
- ➤ DOCUMENT CAMERAS
- ➤ DRC INSIGHT TESTING SYSTEM
- ➤ DROPBOX

- ➤ EBSCO (DATABASES)
- ➤ EDGENUITY
- ENT OUTDOOR APs
- EOC TESTING SYSTEM
- ➤ ERATE CONSULTANT
- ERATE FUNDING
- EXCHANGE (EMAIL)
- EXCHANGE (SERVER)
- ➤ EXTREME CLOUD (APs / WI-FI)
- ➤ FACILITIES REQUESTS (TECH)
- ➤ FIBER
- ➤ FINES & FEES (TECH)
 - FLOCABULARY
- ➤ FREE/REDUCED APPLICATION FORM
- ➤ GAGGLE
- ➤ GO MATH (THINK CENTRAL)
- ➤ GOOGLE EDUCATION SUITE CONSOLE
- ➤ HOTSPOTS (KAJEET)
- ➤ INVENTORY
- ➤ IREADY
- ➤ ISO DATA SECURITY
- ➤ ISTE (TECH STANDARDS)
- ➤ JAMF (APPLE)
- ➤ KITE TESTING SYSTEM

TOP 100 TECH SUPPORTED PROGRAMS (A - Z)



- KYOCERA
 - (COPIERS/PRINTERS/SCANNERS/FAX)
 - LASER PRINTERS
- LIGHTSPEED (RELAY)
- LOCAL RECORDS GRANT
- > LOOM
- MAINTENANCE REQUEST FORM
- MAP TESTING SYSTEM
- ➤ MICROFICHE (STUDENT RECORDS)
- MICROSOFT LICENSES
- MIDWEST COMPUTECH
- MO ONE CALL
- MOREnet (INTERNET/MONITORING)
- NEARPOD
- NIGHTWATCH (FIRE ALARMS)
- NIGHTWATCH (PHONES)
- NIGHTWATCH (SECURITY ALARM)
- ONE DRIVE
- ➤ ONE2ONERISK (DEVICE INSURANCE)
- ONLINE REGISTRATION
- ➤ OVERDRIVE
- > PANASONIC PHONES
- > PAPERCUT (PRINTER MANAGEMENT)
- PLTW GRANTS
- ➤ POSTAGE METERS
- ▶ PULSE (TYLER DATA DASHBOARD)
- PURCHASE ORDERS

- ➤ QUIA
- RAPTOR (VISITORS)
- > RECORD RETENTION
- SCANNERS
- SCHOOL MESSENGER
- SCREENCASTIFY
- SERVERS
- ➤ SIS-FIN (FINANCIAL)
 - SIS-K12 (STUDENT 360)
 - SOAR REFERRALS FORM
- > SOPHOS (ANTI-VIRUS)
- ➤ SOPHOS (FIREWALL)
- ➤ SORA
- ➢ SOUNDCRAFT (SOUND)
- > SUMMER INSTITUTE
- ➤ SURPLUS
- > SWITCHES
- TECH COACHES
- TECHNOLOGY & RISK ASSESSMENTS
- ➤ TECHNOLOGY REQUESTS
- TRAVERSA (BUS)
- ➤ VERIZON (CELL PHONES)
- VISION SOFTWARE
- ➤ WE VIDEO
- ➤ WIDA TESTING SYSTEM
- > WINDOWS UPDATES
- > ZOOM

