

Operational Expectation 15

Annual Technology Update
Board of Directors

May 19, 2021

Operational Expectation 15

An effective public education system develops students who are globally aware, civically engaged, and capable of managing their lives and careers.

Therefore, the superintendent will:

1. Establish and maintain a forward-thinking and visionary technology environment that promotes the best teaching and learning for our students.
2. Establish and maintain technology systems and applications consistent with the accomplishment of the Board's Results through the district's technology plan.



Year In Review

2020-21 Goals / Accomplishments


- ✓ COVID Remote Learning Resources
- ✓ Middle School Cameras (Capital Fund)
- ✓ Elem/Middle School Intercoms (Capital Fund)
- ✓ Student Data Privacy Agreements (105 agreements)
- ✓ Network Switches Phase 2 (E-Rate Funding)
- ✓ Student Email (Grades 6-12)
- ✓ Copier Replacement
- ✓ 1:1 Device Planning / Procurement

COVID Remote Learning Resources

- 5,700 student chromebooks checked out for home use
- Teacher laptops & mobility (vs. traditional desktop computers)
- 220 mobile wi-fi hotspots
- Donation of 2500 netbooks from OSPI
- ITS expanded remote security/anti-virus patching
- Patrick DeVega, Digital TOSA hired September, 2020
- Created support resources for online learning



Remote Learning



SK Digital Learning


- Home
- SK Core Tools
- G Suite for Education
- Virtual Professional Learning
 - SK Remote Learning
 - Learning Improvement Days
 - Computer Science Education Week
 - Building Technology Liaisons

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SK Core Tools

Tools for Remote Learning


Classroom



Learning Management System

[Google Classroom](#)


Drive



Cloud Storage and Sharing

[Google Drive](#)


Screencastify



Video and Screen Recording

[Screencastify](#)


Zoom



Video Conferencing

[Zoom Video Conferencing](#)


Chrome



Internet Browser

[Chrome Internet Browser](#)

SK Adopted Curriculum



[SK Adopted Curriculum](#)



Patrick DeVega
Digital Learning Specialist

Current Technical Status

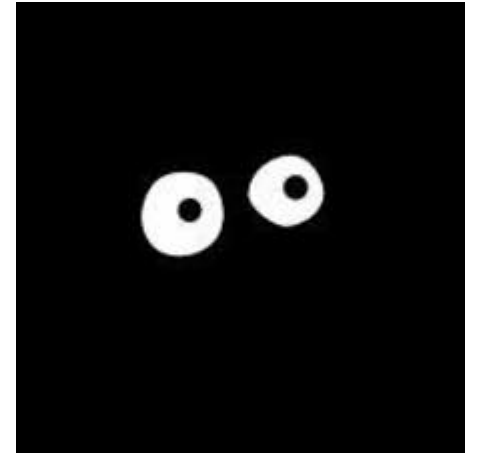
	WAN Bandwidth	Core Switching	LAN Switching	Backup Power	Wireless	Phone Handsets	Intercom System	Security Cameras	Access Control	File Server	Win PCs	Chrome books
BG											6.58	1.33
EPO											4.33	0.83
HC											5.33	0.92
MAN											4.5	0.92
MR											4.92	1.5
OH											4.5	2.25
OL											4.58	0.67
SC											4.75	1.17
SG											5.42	0.75
SS											5	1.08
CH											4.67	1.25
JS											3.58	1.25
MW											4	1.83
SKHS											3.67	1.42
DISC											5	1.08
EXP											3.33	1.17
DO												
TRANS												
FAC												
FNS												
ITS												

Numbers
indicate
average
age of
device

Status as of May 10, 2021

Things Keeping Us Up At Night

- Phishing incidents (avg. 10/year)
... can lead to ransomware
- Penetration testing via third-party security firm
- Multi-Factor Authentication (MFA)
- Public Records Requests (400% increase)
 - Average 6 hours per request response



Subscription Model

- Historical purchasing models were a one-time cost with a small annual maintenance
- New subscription models are based on per-unit cost, with a unit being:
 - Per student
 - Per staff
 - Per device
- Model similar to video streaming services
 - Historical model was a one-time “rental cost” of a video or DVD
 - Current model is to “subscribe” to Hulu, NetFlix, Disney, Amazon for a small monthly charge



Sample District Cost Matrix

	<u>School</u>	<u>Staff</u>	<u>Student</u>	<u>Total</u>
	16	1450	9200**	
Microsoft Office365		\$ 53.76		\$77,952
Google		\$ 20.87		\$30,262
Skyward			\$ 21.59	\$198,628
ScreenCastify Screen Recorder	\$ 750			\$12,000
Zoom		\$ 5.25		\$7,613
HelloID Portal		\$ 1.25	\$ 1.25	\$13,313
TypingQuest (Elem)			\$ 0.70	\$3,479
STAR Reading			\$ 13.65	\$125,580
Cisco Unity Voicemail		\$ 11.00		\$15,950
		\$ 92.13	\$ 37.19	\$484,776

Amounts are provided for illustrative purposes and will fluctuate based on enrollment and negotiated vendor pricing

*** Does not include Connections Academy estimates*

Looking to 2021-2022

- 1:1 Devices
 - 1:1 checkout for grades 6-12
 - Professional development
 - Support and repair model
 - Classroom filtering/management tools
- Network Projects
 - UPS backup power upgrades
 - Monitoring WAN/wireless bandwidth
- Capital Levy
 - Continued 1:1 planning for elementary
- District Support
 - New web site



Thank You

Questions or Comments?