

Issaquah School District
Executive Limitations Monitoring Report
August 13, 2020
EL-15 TECHNOLOGY – Annual Internal Report

The Superintendent certified that the District is in compliance with EL-15 with no exceptions.

The Superintendent shall not fail to establish and maintain technology systems and applications consistent with the accomplishment of the Board's Ends.

Accordingly, the Superintendent shall not fail to:

1. Provide equitable access to technology throughout the district.

Interpretation:

I interpret this to mean that district administrative leadership in collaboration with the Educational Technology Department and IT/Infrastructure Department shall have a system-wide process for assuring equal access to technology through the district.

Evidence of Compliance:

Each year the district implements replacement cycles at each school. Computers/laptops are on a five-year replacement cycle (Board directed). In the late spring/early fall, School Technology Teams are provided with the amount available to them for their replacement cycle. The School Technology Teams select the district-standard replacements for their school that best suit their school's needs. School Technology Teams also allocate classroom laptops, tablets, non-classroom computers, electronic response systems within their school.

Other equipment on replacement cycles currently are document cameras, and projectors. Those are replaced as needed and managed by the school's Technology Specialist.

Additional Technology Levy allocations are provided to each school for libraries (\$5,000 elementary, \$10,000 secondary) non-classroom computers (4 elementary, 6 middle school, 8 high school), and for School Technology Teams (\$10 per FTE) to spend on printers, online subscriptions and other additional district-standard items in their school specifically to improve student learning.

An additional replacement cycle may be made in the spring if other Tech Levy line items allow.

[Tech Levy 2015-18 Board Summary](#) (FY 2018-19)

Each classroom includes a teacher desktop and document camera connected to a projection device. The table below shows the ratio of students to computers as of April 1, 2019, plus additional equipment available to staff and students.

2018-19 School Year

School	FTE as of 4/1/19	Instructional desktops & laptops-classrooms, labs, library	Instructional laptops	Instructional desktops	Ratio: Students to Instruc. Computers	Tablets	Non-classroom computers	Electronic Student Response Systems	Doc Cams	Projectors	Interactive tech - ACTIVboards & Proj.
AP	648.80	532	351	181	1.2 : 1	233	118	10	44	49	44
BW	664.70	581	405	176	1.1 : 1	148	133	13	55	54	45
CA	502.00	488	317	171	1 : 1	103	101	17	39	40	33
CH	566.01	459	399	60	1.2 : 1	74	111	20	39	46	35
CL	736.00	516	463	53	1.4 : 1	214	154	9	64	3	49
CR	599.27	498	333	165	1.2 : 1	243	115	6	44	31	37
CS	738.36	545	409	136	1.4 : 1	192	135	14	44	44	41
DS	655.86	467	367	100	1.4 : 1	81	99	5	34	42	36
EN	602.07	449	426	23	1.3 : 1	78	97	12	38	39	42
GR	753.00	515	329	186	1.5 : 1	255	147	29	43	46	48
IVE	622.18	447	329	118	1.4 : 1	187	156	8	37	43	41
MH	392.20	402	241	161	1 : 1	128	76	19	27	26	22
NC	652.00	516	480	36	1.3 : 1	184	127	12	37	45	36
SH	743.00	405	344	61	1.8 : 1	215	193	11	67	2	37
SS	582.00	367	329	38	1.6 : 1	94	207	1	40	34	40
BLMS	862.91	671	499	172	1.3 : 1	219	230	11	45	45	37
IMS	984.36	1011	870	141	1 : 1	59	169	6	53	2	44
MMS	1,170.33	843	528	315	1.4 : 1	204	178	25	58	50	32
PCMS	1,007.30	758	418	340	1.3 : 1	135	223	9	50	51	26
PLMS	961.97	822	698	124	1.2 : 1	109	234	0	46	0	46
IHS	2,096.99	1578	975	603	1.3 : 1	422	391	23	92	101	8
LHS	1,287.19	1458	1149	309	0.9 : 1	35	337	3	66	75	39
SHS	1,954.26	1548	1157	391	1.3 : 1	264	364	7	84	94	15
GK	168.51	126	107	19	1.3 : 1	2	122	0	5	6	2

Instructional desktops, laptops in classrooms labs and library: Any desktop or laptop that is used by students 50% or more of the time.

Tablets: Mostly iPads

Non-classroom computers: Office computers, custodial, kitchen, dedicated teacher computers, and computers stored waiting for surplus. Skyline has extra computers because every teacher has a desktop in their classroom plus a desktop in a separate office (plus their teacher laptop).

In addition to the inventory listed above there is a wide variety of assistive and adaptive technology devices for dedicated use by students with an IEP or 504. [This includes iPads, technology to assist visually challenged students, amplification, special keyboards and mice.](#)

Our ELL students also utilize technology to make learning accessible. [2018-19 ELL Data - ISD](#)

Internet Service is provided to the Issaquah School District by the K-20 network. I-Net2 high speed fiber is leased from King County.

Personal electronic devices may be used by students as outlined in the [Electronic Resources policy.](#)

2. Provide a comprehensive technology plan that directs the outcomes and priorities for the expenditure of technology resources.

Interpretation:

All funding for technology in the Issaquah School District comes from the Issaquah community. Every four years the district administrative leadership in collaboration with the Educational Technology Department and with input from schools develops a technology expenditure proposal. The proposal is presented as a springboard to the Community Bond and Levy Committee for their review, input, and revision. After completion of the community process, the plan is presented to the School Board for their final review and revision. With Board approval a proposal is presented to the community for a vote.

Evidence of Compliance:

[Technology Plan 2019](#)

The most recent Technology Levy was created as outlined above and voted on in February 2014. The community voted to accept the Technology Levy as presented below.

	2014-2015	2015-2016	2016-2017	2017-2018	TOTALS
Staff					
Central Technology Staff	\$1,050,000	\$1,102,500	\$1,157,625	\$1,215,506	\$4,525,631
Technology Specialists	\$850,000	\$892,500	\$937,125	\$983,981	\$3,663,606
Instructional Tech Specialists	\$208,125	\$302,500	\$327,500	\$352,000	\$1,190,125
Total	\$2,108,125	\$2,297,500	\$2,422,250	\$2,551,488	\$9,379,363
Network					
Server Upgrades/Replacements/Data Storage	\$250,000	\$250,000	\$250,000	\$250,000	\$1,000,000

Telecommunications software & hardware	\$75,000	\$75,000	\$75,000	\$75,000	\$300,000
E-mail, Backup SW upgrades, Antivirus, OS software, Internet Filter	\$150,000	\$150,000	\$150,000	\$150,000	\$600,000
Firewall, routers, packetshapers	\$50,000	\$50,000	\$50,000	\$50,000	\$200,000
ISD Website, Connect, Moodle, PDPlace	\$65,000	\$65,000	\$65,000	\$65,000	\$260,000
Voice over IP transitions	\$100,000	\$100,000	\$100,000	\$100,000	\$400,000
Video Security Maintenance & Upgrades	\$75,000	\$75,000	\$75,000	\$75,000	\$300,000
Upgrade school MDFs & IDF's cabling	\$62,500	\$62,500	\$62,500	\$62,500	\$250,000
Network Software, Security detection/protection	\$50,000	\$50,000	\$50,000	\$50,000	\$200,000
E-rate services	\$6,000	\$6,500	\$7,000	\$7,500	\$27,000
Wireless higher density expansion, maintenance, upgrades	\$375,000	\$375,000	\$375,000	\$375,000	\$1,500,000
Homeroom Assessment System	\$250,000	\$85,000	\$85,000	\$85,000	\$505,000
Student/Fiscal/HR Software License	\$325,000	\$331,500	\$338,130	\$344,893	\$1,339,523
IOS/MDM for phones/tablets/personal wireless devices	\$25,000	\$25,000	\$25,000	\$25,000	\$100,000
Backbone Switch Upgrades	\$125,000	\$125,000	\$125,000	\$125,000	\$500,000
Secondary Video Conferencing	\$50,000	\$50,000	\$50,000	\$50,000	\$200,000
Student Online Registration/Business Process Automation	\$200,000	\$65,000	\$65,000	\$65,000	\$395,000
Total	\$2,233,500	\$1,940,500	\$1,947,630	\$1,954,893	\$8,076,523
For Schools					
Classroom/Lab Replacement Cycle (5 year) & add student use Tablet/Hand held device purchase/replacement	\$1,500,000	\$1,500,000	\$1,500,000	\$1,500,000	\$6,000,000
Classroom Mobile Devices	\$125,000	\$125,000	\$125,000	\$125,000	\$500,000
Laptops for Instructional Staff	\$250,000	\$250,000	\$250,000	\$250,000	\$1,000,000
Laptop Carts 3 per MS, HS, 1 TM	\$37,500	\$37,500	\$37,500	\$37,500	\$150,000
Library Hardware Allocation	\$165,000	\$165,000	\$165,000	\$165,000	\$660,000
Library Subscriptions	\$70,000	\$70,000	\$70,000	\$70,000	\$280,000
Clark Magnet	\$5,000	\$5,000	\$5,000	\$5,000	\$20,000
Cascade Ridge Magnet	\$5,000	\$5,000	\$5,000	\$5,000	\$20,000
Briarwood Magnet	\$5,000	\$5,000	\$5,000	\$5,000	\$20,000
Software Licensing Microsoft	\$100,000	\$100,000	\$100,000	\$100,000	\$400,000
Non-classroom school staff computers	\$105,000	\$105,000	\$105,000	\$105,000	\$420,000
Career and Tech Ed allocation	\$200,000	\$200,000	\$200,000	\$200,000	\$800,000
TechSmart	\$25,000	\$25,000	\$250,000	\$25,000	\$325,000
Building Tech Team Allocation	\$175,000	\$175,000	\$175,000	\$175,000	\$700,000
ITP Hardware	\$500,000	\$500,000	\$500,000	\$500,000	\$2,000,000
Projector Replacement - mounted/interactive (4 year)	\$160,000	\$160,000	\$160,000	\$160,000	\$640,000
Doc Cam Replacement (5 year) and GradeCam	\$150,000	\$150,000	\$150,000	\$150,000	\$600,000
Special Education Adaptive Technology	\$50,000	\$50,000	\$50,000	\$50,000	\$200,000
ESRs (Electronic Student Response System)	\$200,000	\$200,000	\$200,000	\$200,000	\$800,000
GPS hardware/software for school buses	\$75,000	\$75,000	\$75,000	\$75,000	\$300,000

Emergency and Communication system	\$50,000	\$50,000	\$50,000	\$50,000	\$200,000
Total	\$3,952,500	\$3,952,500	\$4,177,500	\$3,952,500	\$16,035,000
Professional Development					
Issaquah Technology Project	\$20,000	\$20,000	\$20,000	\$20,000	\$80,000
Tech Stretch, ACTIVstudio, Connect	\$50,000	\$50,000	\$50,000	\$50,000	\$200,000
Training - Tech Staff	\$40,000	\$40,000	\$40,000	\$40,000	\$160,000
On-line PD for staff - per diem option	\$35,000	\$35,000	\$35,000	\$35,000	\$140,000
Stipends - Gradebook, Webmaster, Connexpert	\$150,000	\$150,000	\$150,000	\$150,000	\$600,000
Staff Professional Development and Maintenance of teacher websites	\$1,300,000	\$1,350,000	\$1,400,000	\$1,450,000	\$5,500,000
Teacher Tech Training per diem	\$400,000	\$400,000	\$400,000	\$400,000	\$1,600,000
Total	\$1,995,000	\$2,045,000	\$2,095,000	\$2,145,000	\$8,280,000
Grand Total	\$10,289,125	\$10,235,500	\$10,642,380	\$10,603,880	\$41,770,885
Aggregate Summary					
Maintain current service	\$9,241,625	\$9,316,500	\$9,716,750	\$9,671,488	\$37,946,363
Critical Enhancements	\$560,000	\$431,500	\$438,130	\$444,893	\$1,874,523
Enhancements	\$487,500	\$487,500	\$487,500	\$487,500	\$1,950,000
Estimated Tax Impacts (Average)	2014-2015	2015-2016	2016-2017	2017-2018	
Maintain current service	\$0	\$0	\$0	\$0	
Critical Enhancements	\$0	\$0	\$0	\$0	
Enhancements	\$0	\$0	\$0	\$0	
Grand Total	\$1	\$1	\$1	\$1	
Category % Per Year (Average)	2014-2015	2015-2016	2016-2017	2017-2018	
Maintain current service	\$1	\$1	\$1	\$1	
Critical Enhancements	\$0	\$0	\$0	\$0	
Enhancements	\$0	\$0	\$0	\$0	
Grand Total	\$1	\$1	\$1	\$1	
Planned Calendar Year Levy Amounts	2014-2015	2015-2016	2016-2017	2017-2018	Total
Maintain current service	\$8,434,037	\$8,874,591	\$9,805,879	\$10,844,520	\$37,959,027
Critical Enhancements	\$511,064	\$411,033	\$442,149	\$498,853	\$1,863,098
Enhancements	\$444,899	\$464,376	\$491,972	\$546,628	\$1,947,875
Grand Total	\$9,390,000	\$9,750,000	\$10,740,000	\$11,890,000	\$41,770,000
	\$9,390,000	\$9,750,000	\$10,740,000	\$11,890,000	\$41,770,000

3. Provide access to advanced, technologically rigorous courses for students.

Interpretation:

I interpret this to mean that the district offers technology courses providing advanced technology experiences and equipment for students in which they focus specifically on content that challenges them to think, create, and innovate in ways otherwise unavailable to them.

Evidence of Compliance:

The following classes are technologically rigorous as defined by the software and hardware students learn to use while in the class:

High School			
Adv Journalistic Writing (ENG355)	SHS	I-Vision TV/Video Production 1 (INT251)	IHS
Advance Computer Science Topics/Projects (COM335)	IHS, LHS	TV/Video Production 2 (INT350)	LHS, SHS
Advance Ele Engineering (7ELE05)	SHS	I-Vision T/Video Production 2 (INT351)	IHS
AP Computer Science (COM600)	IHS, LHS	TV/Video Production 3 (INT450)	LHS
Engineering Robotics (INT442)	IHS	TV Production 3 (INT451)	SHS
Graphic Design 1 (INT240)	LHS, IHS, SHS	Journalism (ENG350)	IHS, LHS
Graphic Design 2 (INT241)	IHS, SHS	Journalism 2 (ENG351)	IHS
Graphic Design 3 (TEC101)	IHS	Journalistic Writing (ENG354)	LHS, SHS
IB Computer Science HL (COM651)	SHS	Photography 1 & 2 (ART125, ART225)	IHS
IB Computer Science SL (COM650)	SHS	Project in Robotics (7TEC04)	IHS
Interactive Media 1 (INT140)	IHS	Robotics Lab (7TEC01) 7th period	LHS, SHS
Intro Computer Science (INT245)	IHS, LHS, SHS	Web Site Design (COM330)	IHS, LHS, SHS
Intro to Engineering Design (INT435)	IHS, LHS	Yearbook (INT160)	IHS, LHS, SHS
Intro Video Production (INT150)	LHS	Yearbook 2 & 3 (INT161, INT162)	IHS, SHS
Television Production (INT250)	LHS, SHS		
Gibson Ek Classroom Learning Experiences Hackathon, Podcasting, Your First 3D Print, Student Media, Building a Minecraft Server, Tinkering with TinkerCAD, Cybersecurity & Hacking, Photography, YouTube 1 & 2, Intro to Computer Science, and Game & App Design			
Middle School			
Digital Photography (KDP060, KDP078)	BLMS, IMS, MMS, PCMS	Makerspace (KSP078)	BLMS

TV & Video Production (KVP078, KTP678, KVI678, KIL078, KVP060, KVD078)	BLMS, IMS, PCMS	Principles of Flight	PCMS
Automation and Robotics (KRA078)	IMS, MMS	Yearlong Computer Science Discoveries: Web, Game, & App Design (KIN101, KIN102, KIN103, KIN104, KCS678)	PCMS, PLMS, MMS
Design and Modeling (KDM078)	IMS, MMS	Yearbook	BLMS, IMS, MMS, PCMS, PLMS
Inventors Lab (KIN078)	PCMS		

Elementary School

*Science Tech Magnet serving
grades 4 and 5*

BW, CL, CA

Draws from all elementary schools

The elementary social studies adoption team created a variety of lessons integrating technology including Actively Learn, Google Earth, and Google Expeditions. The first year of the new adoption is 18/19 school year.

4. Establish expectations of use of technology by staff and students.

Interpretation:

I interpret this to mean that

- All middle school students will complete the required TechSmart class to assure they understand and can use technology as a learning tool in multiple ways throughout their classes and learning activities. TechSmart curriculum is updated yearly.
- Staff will integrate technology appropriately throughout their curriculum and student learning activities to provide an environment where students use technology as they would use any other tool to learn, create, produce, publish, and collaborate.
- The adoption process for Teaching and Learning Services includes representation from the Educational Technology department to provide guidance and input on technologies to support curriculum and student learning.
- All students in grades 3-11 will take Smarter Balanced Assessments on a computer.

Evidence of Compliance:

- Written in the IEA-ISD contract is the goal of providing a powerful student centered 21st century learning environment where students are actively engaged in using technology in individual and collaborative learning activities.
- Technology Levies generously approved by our community for the Issaquah School District have provided the technology resources for all of our schools to have high level access to equipment and to the Internet.
- Technology Levies also have provided training for teachers so those who have participated have the background to create classrooms that have the instruction and daily student learning experiences students need to reach E-2, part 2.
- During the 2016/17 school year a committee of 15 elementary school teachers led by two of our Instructional Technology Specialists developed a technology sequence of

skills for K-5 students and identified five core tools for teachers to integrate into the curriculum that will help students learn and practice the technology skills. The core tools along with the ISTE standards serve as a focus for Ed Tech professional development.

- The elementary social studies adoption team included a variety of lessons which integrate various technologies such as Google Expeditions, Google Earth, Actively Learn, and Office365.

TechSmart Enrollment by School

School	# of students who met Tech Grad Requirement at the end of 8th Grade 2018-19	Total of 8th grade at end of year 2018-19	Percentage of the class who met
Issaquah MS	280	338	83%
Maywood MS	310	357	87%
Pine Lake MS	271	328	83%
Beaver Lake MS	284	285	100%
Pacific Cascade MS	286	330	87%
Total	1431	1638	87%

Students enrolled in TechSmart during first and second trimester (775) completed the National Speak Up Survey. Below are the responses to a few of the questions that demonstrate how students are using technology in school.

6 What prevents you from using technology at your school? (Check all that apply)

	District	State	National
Internet access is not schoolwide	9%	12%	9%
Internet is too slow or inconsistent	33%	39%	37%
Lack of computers for students to use at school	11%	10%	10%
My school blocks websites I need for schoolwork	5%	13%	25%
Not allowed to text with classmates	38%	38%	36%
Not allowed to use my mobile devices at school	52%	54%	52%
Not allowed to use social media	35%	40%	39%
Teachers don't know how to use technology for learning	5%	8%	6%
Teachers limit our technology use	32%	34%	32%
Too many rules against using technology	32%	36%	36%
I don't use technology at school	12%	9%	4%
Other	15%	14%	11%

7 Which of these are true for you most of the time when you are at school? (Check all that apply)

	District	State	National
I use my own mobile device (smartphone, tablet, laptop) to help with schoolwork	26%	19%	20%
I use a laptop in class that my school gives me to use	59%	45%	28%
I use a tablet in class that my school gives me to use	15%	23%	14%
I use a Chromebook in class that my school gives me to use	4%	33%	64%
I use computers in the computer lab, library, or media center to help with schoolwork	52%	40%	25%
I do not regularly use technology when I am at school	21%	15%	7%

10 Which of these types of digital content do you use at least monthly in your classroom to support learning? (Check all that apply)

	District	State	National
Augmented or virtual reality environments	7%	7%	8%
Animations and simulations	21%	21%	20%
Digital content subscriptions (like Discovery Education)	17%	17%	22%
Digital, video, or online games (like Kahoot, Minecraft)	54%	54%	65%
Google Apps for Education (like Google Docs, Google Slides etc.)	42%	42%	56%
Microsoft Office 365 (like Word, Excel, Apps for Windows, etc.)	82%	82%	48%
Online curriculum	26%	26%	25%
Online databases (like census data, education statistics)	19%	19%	23%
Online tests or assessments	51%	51%	59%
Online textbooks	63%	63%	50%
Primary source documents (like from the Library of Congress or NewseumED.org)	16%	16%	18%
Real-time data (like population, weather, NASA, Google Earth, GIS etc.)	21%	21%	27%
Social media tools	11%	11%	13%
Software/apps to help students develop skills (like reading, writing, math, foreign language)	17%	17%	22%
Speech recognition software or apps	5%	5%	6%
Tutorials	26%	26%	26%
Videos that my teachers create for us to watch	25%	25%	33%
Videos that I find online myself to help me with learning (like Kahn Academy, YouTube, NASA)	30%	30%	34%
Virtual labs	7%	7%	15%
Web-based conferencing and online meeting tools	6%	6%	6%
Other	4%	4%	4%

5. Maintain a computing environment that is safe, secure and reliable for students and staff.

Interpretation:

I interpret this to mean that the Issaquah School District Information Technology Department uses every tool available to provide a safe, secure, and reliable network and learning environment for students and staff.

Evidence of Compliance:

- Internet Safety Training provided yearly to all students K-12.
- All students must sign the Student Responsible Use Agreement.
- Central CIPA filtering device also blocks access to known malware sites; updates real-time.
- Centrally managed antivirus/antispyware on all district windows machines; updates daily.
- Centrally managed windows security updates – 2 times per month and as needed.
- Internet e-mail scanned for viruses and malware; updates hourly.
- Server storage access secured by district network account permissions.
- Nightly backups of server-based files to disc or tape; tapes rotated into fire-proof safe storage.
- Disc backup located in different physical location (IVE) from server storage (Admin).
- BYOD wireless Internet-access network firewalled from ISD network, and from peer-to-peer communication.
- Redundant firewalls protect ISD against Internet attacks.
- Redundant power source to help ensure the network keep running.
- *The ISD network had a **99.99%** up time between June 2018 and March 2019. Downtime is calculated for district-wide data outages only.*

Violations of the student 6-12 Responsible Use Agreement resulting in student discipline are shown in the table in this link: [Discipline related to technology 2018-19](#)

6. Prohibit the use of technology resources for commercial, political, illegal or indecent purposes or that disrupts the learning environment of students.

Interpretation:

I interpret this to mean that all staff and students are provided with the appropriate Responsible Use Agreement which they read and sign. The Responsible Use Agreement describes appropriate and inappropriate use of the district network and district technology resources.

Evidence of Compliance:

All of the prohibitions listed in item six were included in the staff and student responsible use agreements, which are included in the [Regulations Manual](#) (2000-Instruction) on the district website.

Board Approval: August 13, 2020