Strategic Plan for Technology in School District 46

2018 – 2023

We will use technology to support and enhance the educating of our students for the future: forging a path for tomorrow's innovative, global thinkers.

Our students will have the technical and social skills to navigate current and emerging technologies to enrich their learning.

INTRODUCTION

School District No. 46 first embarked on a district-wide Technology Plan in 2012 based on the district's Strategic Plan review of technology (October 2011). The Technology Plan developed for the 2012/2013 school year, with subsequent revisions and updates in 2014, 2015, 2016 and 2017 school years, set guidelines to assist in improving the academic achievement of all students. During this time, we completed two technology surveys for our staff (latest version Appendix C – Tech Survey 2018). The results of these surveys and the input from the Technology Planning Committee were used to guide us in developing a new plan.

The new Technology Plan (now called a Technology Strategic Plan) sets a vision, along with attainable goals including replacement plans and upgrades to existing technology and infrastructure, as well as a training and support model. The way we use technology has changed and so we must also ensure we change our mindset as it pertains to using technology. The first step is embracing the enthusiasm to learn how to use the technology; only then can we use the technology to learn.

The plan continues to encompass ideas and suggestions gathered from many groups within the school community: teaching staff, support staff, administrators, and senior staff.

Appendix B gives a timeline of measurable goals over the next 5 school years and serves as our guide for review each year.

Reflecting on our 2012-2017 Technology Plan

What have we accomplished? What do we need to continue working on?

We have accomplished many of the goals we set out in our 2012-2017 Technology Plan. We have made improvements in all six of our main goals in the last five years. We continue to re-evaluate and reflect on our practices, processes and standards to ensure that we are moving forward in technology while maintaining a secure and efficient platform on which to build.

Our 2018 - 2023 Strategic Plan for Technology re-examines how we continue to achieve our goals. We continue to address the initial six components of technology: Infrastructure, Security, Computer Hardware, Other Technology Hardware, Software and Training/Support. We have added 'Communication' as a new component as we recognize the important role that technology plays in communication. Ensuring that we meet goals within all seven closely integrated areas of technology will allow us to move forward with our Technology Strategic Plan.

Our vision guides us to provide a technological environment that empowers our students and staff to be successful and achieve their goals. Following our vision will allow us to attain our technology goals:

- Our students, teachers, and other staff will be competent and confident using and integrating technology within a safe and secure environment.
- Our infrastructure will be such that it supports the learning, teaching and administrative goals of School District 46.
- Our staff will use technology to improve its administrative effectiveness through efficient business practices, communications, planning and data management.
- Our teachers will have the technology, training, skills and resources needed to ensure our students have the technological and social skills needed to become global thinkers in tomorrow's society.

INSTRUCTIONAL TECHNOLOGY PHILOSOPHY

Technology is changing rapidly, and our students are impacted by this change both positively and negatively. Providing students with educational experiences that are reflective of life beyond the classroom walls is a means of supporting student learning in today's digital world. We must use technology to support and enhance the education of all students for the future: forging a path for tomorrow's innovative, global thinkers.

Network Infrastructure

Every year the district reviews the infrastructure in terms of connectivity and bandwidth utilization. As our technological demands change, so must our infrastructure. The NGN (Next Generation Network) ministry team continues to review bandwidth in regards to allocations based on student FTE and the demands on each site. Currently sites within our school district range in bandwidth between 30MB and 200MB. This past year we were successful in increasing bandwidth at the School Board Office and the Sechelt Learning Centre to ensure that presentations and meetings run smoothly. The province continues to monitor and adjust our sites as needed. Additionally, our school district will be implementing phase 3 of NGN beginning January 2019.

The school district's wireless structure (Wi-Fi) continues to be monitored and adjusted to meet the demands of student and staff use. Each year the technology team looks at areas within our district with weak connectivity and adjusts the access points (APs) accordingly. Currently we are facing the need to replace the APs at our high schools to meet the increasing demand for a stronger, reliable network with an expanding student body as well as an increase in devices. As we replace the APs at the highschools with higher capacity units, it has allowed us to expand our wireless networks at our elementary schools by installing additional APs where needed. Additionally, we will need to look at upgrading and replacing our switches as we move forward, to ensure the strength of our network both directly and wirelessly. We have planned and budgeted so that we can continue to improve our wireless network within the school district. (see Appendix A – Replacement Plan)

Accompanying our need to improve our network within the district, is the necessity to ensure that our servers are stable and reliable. The demand for data storage continues to rise and with that comes the need to purchase and maintain a reliable infrastructure of servers to store our data locally and on site. While we have budgeted for this, additional funds will likely need to be obtained to sustain these costs into the future. (see Appendix A – Replacement Plan)

ACTION:

- School District 46 will continue to review its wireless network and address areas of weakness. We will continue to upgrade our network infrastructure including upgrading to Gbit managed switches to aid in speed improvements.
- School District 46 will continue to monitor its replacement plan in reference to our key infrastructure of servers, switches and APs to ensure there are adequate funds to upgrade and replace.
- See action item under Security for Disaster Recovery Plan

    (see Appendix A – Replacement Plan)

Security

Security of our data continues to be of utmost importance to School District 46 and the technology department continues to assess and review the risks. The technology staff continues to ensure that our servers, switches and security software are up to date. In addition, we strive to ensure that the automation of our data backup process keeps us safe from hackers and cyber-attacks.

We are moving towards a centralized backup and storage process for our clerical staff computers as well as for our special education and general school files. This will greatly reduce the need for external backup systems and will significantly reduce the risk to data theft.

In addition, consideration of appropriateness of materials found on the internet by our students and staff continues to affect our policies and regulations. Inappropriate use of our network can lead to breaches in the infrastructure including loss of bandwidth and virus attacks. Regulation 1170 has recently been revised and this year we developed the 'guiding principles' for electronic and social media communications. We continue to monitor:

- Network infrastructure including refinements to our Aerohive wireless system and access to our "guest" network
- School District firewalls
- Security risks

ACTION:

- The Technology Department will continue to perform risk assessment on a regular review cycle to ensure school district data is safe. As part of this process we will review district firewalls and data security to ensure we are safe from any outside attacks, cyber or otherwise.
- The Technology Department, along with School Board Office staff, will develop a Disaster Recovery Plan to ensure we are able to quickly recover in case of a technological disaster.
- We will continue to educate our staff on ways to promote and enforce internet safety for our students via multimedia and supervision.
- Schools will review with students and staff yearly the 'guiding principles' for electronic and social media communications.
- Creating Privacy Impact Assessments (PIAs) for any software where personal information may be utilized.
- Update/review the Personal Information Bank (PIB) with any new databases/collections of personal information within the school district.

Computer Hardware

Ensuring that our students and staff are using up to date technology is one of our priorities. Currently we have more than 1500 student devices in our inventory across the district; additionally, we have around 350 devices tagged for staff use. (see Appendix B – Technology in Schools).

Elementary schools within our district have each been provided with a 30-unit laptop cart. These laptop carts are on a 6-year replacement plan and this year was the first year of that replacement plan with West Sechelt receiving 30 new laptops for their cart. Some elementary schools have also invested operating funds into purchasing additional devices, including iPads, for their schools. In addition to these units purchased by the school district, many of our schools have applied for SETBC projects that have allowed them to use new computer technology in their classrooms with our department overseeing the security and networking of each device.

Secondary schools within our district have multiple laptop carts in use in their buildings. Additionally, each secondary school invested in chromebooks last year with 300 units being purchased and deployed initially. Some high schools have purchased additional units and we currently have over 340 deployed with an additional 130 set to be deployed by March 2019.

Currently, we have around 350 computers deployed to staff within our school district. Around 240 laptops have been assigned to teachers for use in their classroom and our senior staff and administration have also been assigned laptops. All of these units are on a replacement plan and this year, we will be taking on the replacement of all 240 teacher laptops. The old units will see some upgrades and be redeployed to elementary schools to add an additional cart. Additionally, our office staff desktop units are replaced every 5 years with the older units being repurposed to upgrade library staff computers and those computers being repurposed for the staffroom so that all staff have computer access.

As with all technology, computer hardware ages relatively quickly and we encounter issues related to that on a regular basis. However, we endeavour to upgrade and repurpose devices as best we can to ensure that we meet all the needs of the district in the most fiscally responsible way we can. We recognize that technology should not be about always having the newest model, but rather considering how best to use and upgrade the hardware we currently have while integrating new hardware into areas where it is needed the most.

ACTION:

- School District 46 will continue to ensure our students and staff are using adequate and up to date computer technology. We will monitor and continue to fund a computer replacement model as developed.

  (see Appendix A – Replacement Plan)

Other Technology Hardware

In addition to all our computer hardware in the school district, we also have a large inventory of projectors, document cameras and voice projection systems. These units can be seen in every school within our district and continue to be purchased on a fairly frequent basis. Schools will need to be mindful of the necessity to factor in replacement costs for older units as they set their budgets each year. Like all technology as newer models are released, the replacement parts and support for the older units dwindle and we are forced to look at upgrading.

Many of our schools also have Smartboards installed in their classrooms. As years have gone by they seem to be used less and less by classroom teachers. We have seen some interest from teachers to upgrade their software to use the existing smartboard in their class, however, we will need to do some review as to why the units have seen decreased use over the last few years.

The Ministry of Education has put emphasis on the need to teach our students coding. Through grant money received from the government, the district has purchased coding technology such as Spheros, Microbits, Raspberry Pi's, and 3-D printers. We recognize that with the purchase of these units that staff will require training and support to fully utilize the technology.

All schools and sites currently utilize Xerox machines for their copying, faxing and scanning needs. These units are on a 5 to 6 year replacement schedule that schools need be cognizant of when setting their budgets. Recently, many schools have opted to purchase colour printing units. The district has gone away from leasing these machines and are now purchasing the units outright with the option to split payments over 5 years. However, some schools have opted to purchase the unit outright in the current year's budget. We continue to work with Xerox to ensure that our service agreements are fair and fiscally viable.

ACTION:

- Schools and departments will continue to purchase technology hardware to aide in the enhancement of student engagement and learning. Standardization of purchases will aid in the capability to provide training and support to staff, and will continue to be encouraged at the district level.
- Schools and departments will budget for the replacement of aging technology hardware within their operating funds.

Software

Technology hardware is only as good as the software that is installed to ensure that the needs of our district are met and supported. Software continues to be reviewed by the technology department on a regular basis.

iPad software is reviewed frequently as many free apps come embedded with adware. This means that iPad software must be carefully vetted before being deployed to district iPads. The district has a vetting process in place for any new apps that may be requested for deployment. In addition, we have restructured our app deployment with Jamf control improvements which allow for quick push out of apps to iPads all over the district wirelessly.

Recently we have had multiple schools who have started to access e-books through our Destiny Library software. Recently, Pender Harbour Secondary and the Sunshine Coast Alternate School have switched to Textbook Manager software to access online textbooks; meaning all our secondary schools are now using the software.

As we watch the world move swiftly to cloud-based software for storage and backup, we are faced with navigating challenges with the implications of taking on that approach as a district. We need to be cognizant of where the servers are based so that we do not inadvertently put our district and student data at risk. The process for approval of this kind of software has multiple labour intensive steps and currently we restrict the implementation of this process to once or twice a year due to time limitations. The district continues to prefer to use software that allows storage on our locally owned servers.

Other key software items:

- Moving to Google Read & Write software for adaptive support.
- Maintaining ERAC 'Digital Classroom' to give teachers and students access to videos and other resources to enhance their learning.
- Updating our Microsoft Office software to Office 2016/Office 2018

ACTION:

- We will continue to review and process requests for cloud-based software within the limitations of the technology department
- We will continue to vet apps as we receive requests for deployment, as well as maintain a list of up to date vetted apps for elementary and secondary schools
- We will work on better ways to promote and educate staff on the Learn Now BC portal which accesses our ERAC's 'Digital Classroom'.
- We will continue to give preference to proprietary software and software that allows for storage on local servers

Training and Support

The district recognizes that staff and students benefit from ongoing professional development, training and in-service. As we implement new hardware and software, we must consider how to ensure that our staff are confident in their abilities to use it effectively.

Teachers will be receiving new computers in 2019, education assistants are expected to use different technology to support students in the classroom, clerical staff continue to adapt to new technology and processes as the provincial standards evolve. A critical component of our implementation plan for any new or changing technology continues to be effective training, in-service and professional development opportunities.

We surveyed all staff in the district in March 2018 about their technology knowledge and needs. The information we received through that survey indicated that staff would like a variety of different training delivery methods. Some of these include:

- Peer to peer training through workshop opportunities or small group learning
- Workshop opportunities with leaders in technology
- Clerical training on Professional Development days
- Showcasing various resources for technology within the district, as well as new technology
- Access to short how-to videos
- Creating and posting a central repository of resources on our district Engage site

In addition, we are planning to experiment with live streaming and recording workshops so that our sessions reach further within the district.

ACTION:

- We will continue to develop a training / professional development / support model to ensure that an investment in technology will support student learning.
- We will work on showcasing the many resources that are presently available to all staff.
- We will continue to ask for feedback as to delivery models for training and work to create opportunities so that all staff and students feel confident using technology.
- We will implement a live streaming option for training sessions which will also allow us to archive them for staff.

Communication

One of the top priorities for School District 46 is effective communication between our staff, students, parents and community. Technology plays an integral role in effective communication.

In the spring of 2018, the school district put out a survey to parents and staff to receive input on the different ways the district communicates with its partners. Through that survey we learned that digital communication has become the preferred method of communication including social media platforms.

All schools are using School Messenger to send out electronic communication to their parents, as well as updating their websites to ensure up to date information. In addition,

The district is currently in the process of creating and developing a new website. While our district website will see an updated look and improved functionality, so too will each of our schools as we transition to the new platform in the new year.
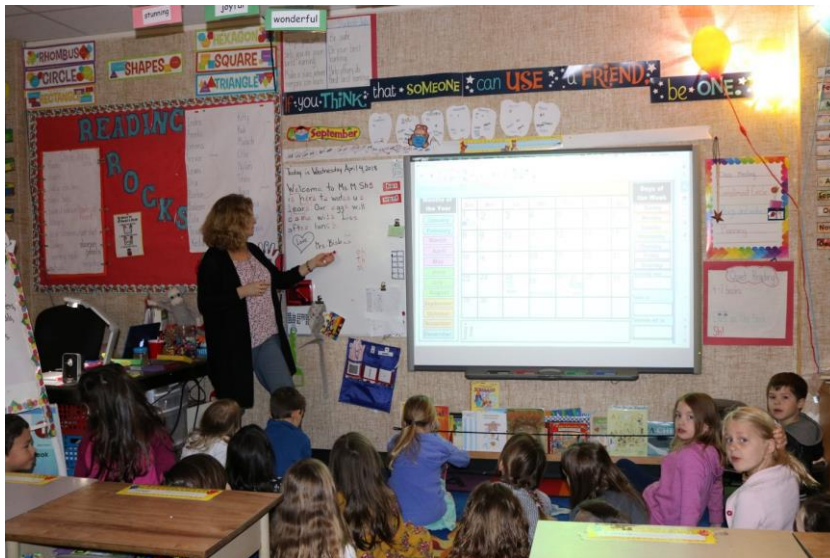
ACTION:

- We will continue to review how we use technology to communicate with staff, students, parents and the community.
- School District 46 will implement a new and updated website in 2019 with school websites transitioning to the new platform shortly after.

COMPUTER CART REPLACEMENT SCHEDULE

*Replacement involves one 30 unit laptop cart at each elementary school.

Any additional carts that schools have invested in are the responsibility of the school to replace.

Secondary schools are responsible for their own cart replacement schedule

	2013/2014	2014 / 2015	2015 / 2016	2016 / 2017	2017 / 2018	2018 / 2019	2019 / 2020	2020 / 2021	2021 / 2022	2022/ 2023	2023 / 2024	2024 / 2025	2025 / 2026
CGE			X						X				
DBE	X						X						X
GES				X					X				
HMB				X						X			
KES	X						X						X
LES			X					X					
MES			X					X					
RCE				X						X			
WSE	X					X						X	
SCAS **		X/3											
PHSS **													
CSS **													
ESS **													

ADMIN ASSISTANT COMPUTER REPLACEMENT SCHEDULE

	2013/2014	2014 / 2015	2015 / 2016	2016 / 2017	2017 / 2018	2018 / 2019	2019 / 2020	2020 / 2021	2021 / 2022	2022/ 2023	2023 / 2024	2024 / 2025	2025 / 2026
					X						X		

SERVER / SWITCH / ACCESS POINT REPLACEMENT SCHEDULE

	2013/2014	2014 / 2015	2015 / 2016	2016 / 2017	2017 / 2018	2018 / 2019	2019 / 2020	2020 / 2021	2021 / 2022	2022/ 2023	2023 / 2024	2024 / 2025	2025 / 2026
					X	X					X	X	

TEACHER COMPUTER REPLACEMENT SCHEDULE

	2013/2014	2014 / 2015	2015 / 2016	2016 / 2017	2017 / 2018	2018 / 2019	2019 / 2020	2020 / 2021	2021 / 2022	2022/ 2023	2023 / 2024	2024 / 2025	2025 / 2026
	X					X					X		

Old teacher laptops will be repurposed as additional carts at elementary schools (excluding LES and MPES)

Appendix B: Technology in Schools

School	Desktop	Laptop	iPads	Chromebooks	Student:Computer	Sept 30th FTE	Comments
CGE	8	33	37		**3.2**	247	
DBE		30	22		**3.7**	191	
GES	2	80	64		**2.4**	351	
HMB		40	47		**2.3**	204	
KES		30	33		**3.9**	246	
LES		30	10		**2.9**	114	
MPES		30	25		**1.5**	81	
RCE	1	60	32		**2.7**	253	
WSES		35	102		**1.9**	264	
PHSS	23	26	29	90	**0.4**	73	
ESS	20	68	0	163	**2.2**	540	
CSS	18	90	58	168	**1.3**	441	
SCAS	33	26	18	36	**2.3**	264	**SCAS & SPIDER**
Total:	72	578	477	457	2.4	3269	

(Average Ratio)

Teacher Laptop Program:	230 laptops were deployed to teachers in 2013 and are still currently in use. Starting in February 2019, 250 new teacher laptops will be deployed. Older teacher laptops will receive a hardware upgrade and will be set up as additional laptop carts at elementary schools.
EA iPad Program:	Due to evolving needs, 90 student iPads were repurposed for staff use. So far 62 units have been distributed to Education Assistants, Childcare Workers and Aboriginal Support Workers within the School District to facilitate increased engagement in online communication and to support the shift to online timesheet entry.

NOTE: This spreadsheet is a constantly changing inventory as new computers are purchased and older computers become obsolete and are recycled.

2018 – 2023

Strategic Plan for Technology in SD46

Appendix C:

2018 Staff Technology Survey Summary

Are you a district employee with School District 46?

Answered: 194   Skipped: 0
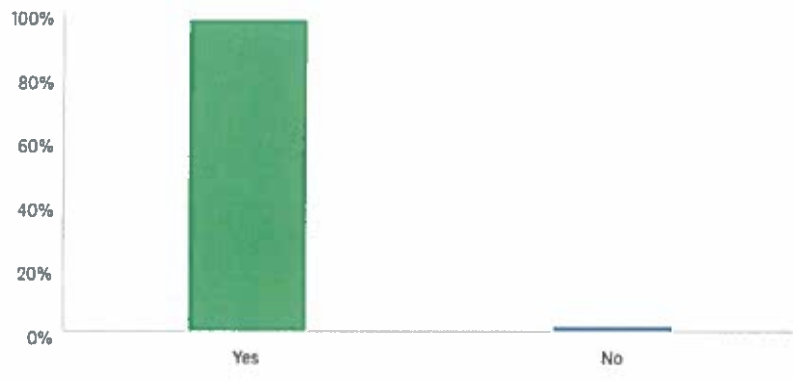
ANSWER CHOICES	RESPONSES	
Yes	97.94%	190
No	2.06%	4
TOTAL		194

In which SD46 position(s) do you currently work?

Answered: 188   Skipped: 6
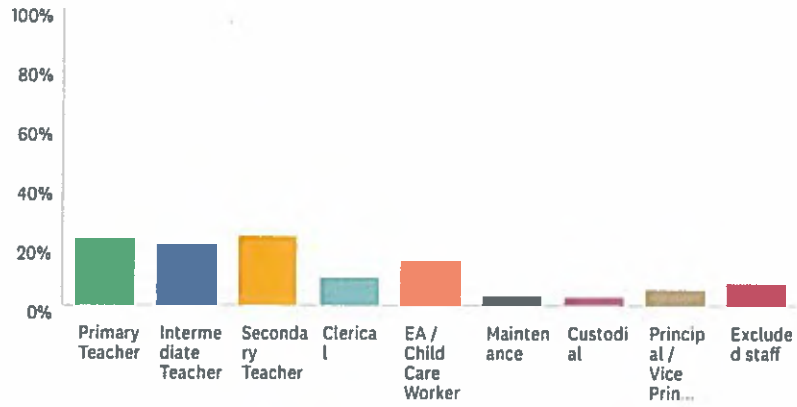
ANSWER CHOICES	RESPONSES	
Primary Teacher	22.34%	42
Intermediate Teacher	20.74%	39
Secondary Teacher	23.40%	44
Clerical	9.57%	18
EA / Child Care Worker	14.89%	28
Maintenance	3.72%	7
Custodial	3.19%	6
Principal / Vice Principal	5.32%	10
Excluded staff	7.45%	14

Total Respondents: 188

Comments (19)

How many times a week do you use technology (laptops, smart board, document camera, internet, email, etc...) FOR YOUR JOB.

Legend: ■ 0 (I do not use this)   ■ 1-3 times per week   ■ 4-10 times per week   ■ more than 10 times per week

On a scale of 1 to 10 (1 being a complete beginner); What do you feel your level of expertise is working with....

Legend: 1 (Beginner), 2, 3, 4, 5, 6, 7, 8, 9, 10 (Expert)

Categories: Laptop, iPad, Desktop Computer, Smart phone, Smartboards, Document Cameras, Internet searches, Email, Text messaging

Q6
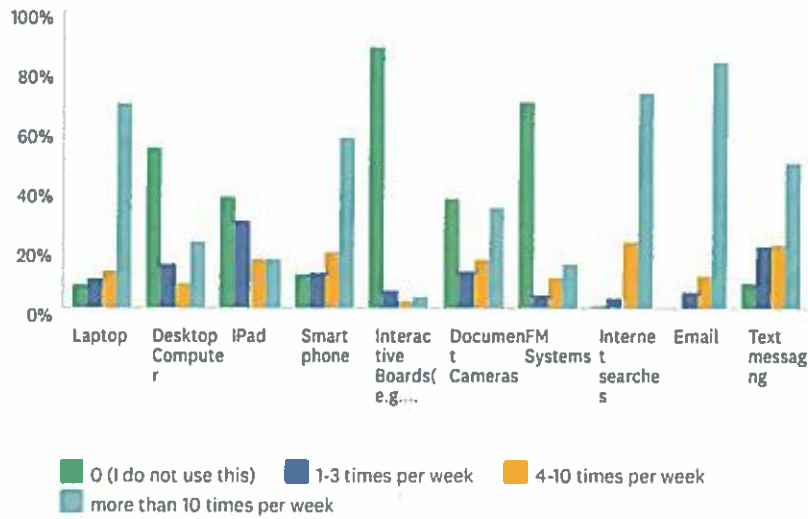
If you are not confident in using any of the above technology in your job....

Answered: 70   Skipped: 124

ANSWER CHOICES	▼	RESPONSES	▼
Where are you struggling most in your use of technology?	Responses	92.86%	65

RESPONSES (65)   **TEXT ANALYSIS**   **TAGS (0)**

Cloud View   List View

Search responses 🔍 ❓

Showing **17** words and phrases

New Email Projector Document Camera Apple Access Think iPads District Smart Board Knowledge Students Struggling Laptops Understanding Outlook Internet Software

Q7

What specific technology would you like to learn or are wondering about that may support your job?
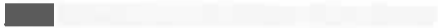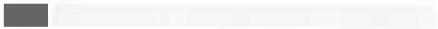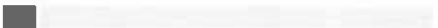
Answered: 160   Skipped: 34

RESPONSES (160)   **TEXT ANALYSIS**   **TAGS (0)**

| Cloud View | List View |

Search responses 🔍 ❓

Showing **28** words and phrases

iPad		16.25%	26
Students		11.25%	18
Smart Board		10%	16
Apps		10%	16
Learn		9.38%	15
Laptop		7.50%	12
Technology		6.25%	10
Document Camera		5%	8
Email		3.13%	5
Think		3.13%	5

Q8

What specific software would you like to learn or are wondering about that may support you in your job?

Answered: 161   Skipped: 33

RESPONSES (161)	TEXT ANALYSIS	TAGS (0)

Cloud View	**List View**	Search responses 🔍 ❓

Showing **28** words and phrases

Word/Phrase		Percentage	Count
Software		13.04%	21
Students		6.83%	11
Apps		6.21%	10
Excel		6.21%	10
iPad		4.97%	8
Learn		4.35%	7
Word		4.35%	7
School		3.11%	5
Microsoft		2.48%	4
Book Creator		1.86%	3

What technology support do you know about that currently exists in the district?

Answered: 161   Skipped: 33
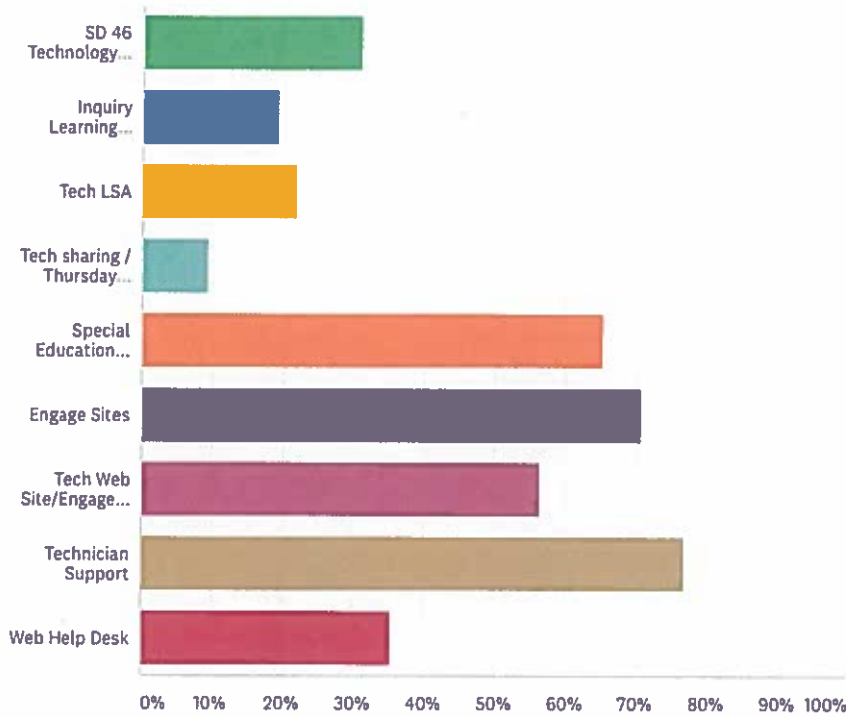
Are you aware of the SD46 District Wide Network and Internet Appropriate Use policies in Regulation 1600?

Answered: 161   Skipped: 33
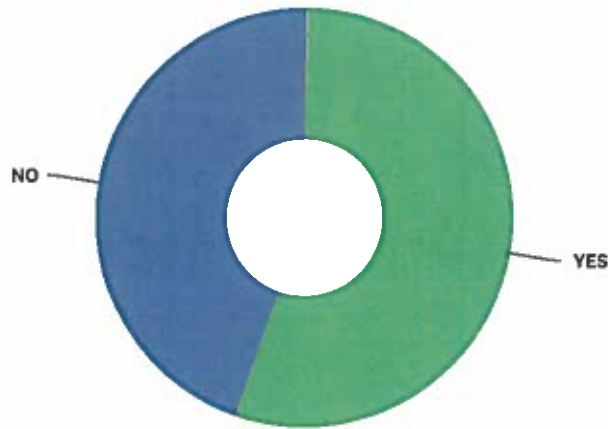
ANSWER CHOICES	RESPONSES	
▾ YES	55.28%	89
▾ NO	44.72%	72
TOTAL		161

Are you aware of the SD46 District Wide Network and Internet Appropriate Use policies in Regulation 1600?

Answered: 161   Skipped: 33
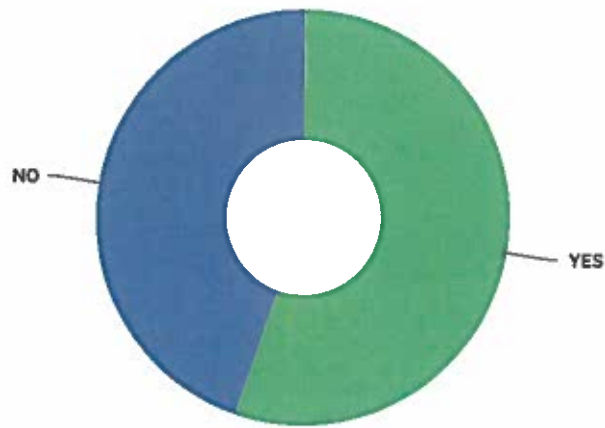
ANSWER CHOICES	RESPONSES	
YES	55.28%	89
NO	44.72%	72
TOTAL		161

Do you have concerns about internet safety in the school district, students or staff?

Answered: 161   Skipped: 33
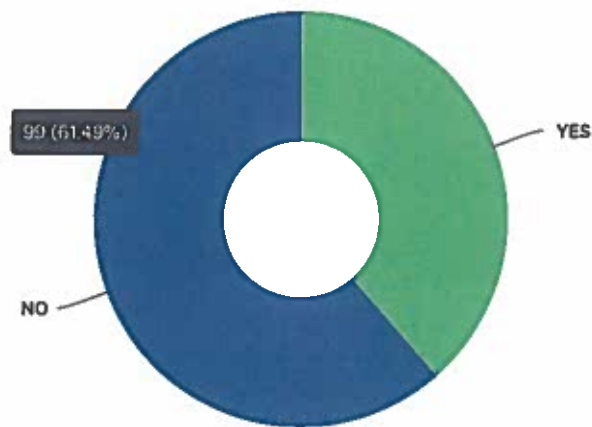
ANSWER CHOICES	RESPONSES	
▾ YES	38.51%	62
▾ NO	61.49%	99
TOTAL		161

How would you learn best about using software, computers, iPads, iOS devices and other technologies?Please rank your preference for each choice below.

Answered: 149   Skipped: 45
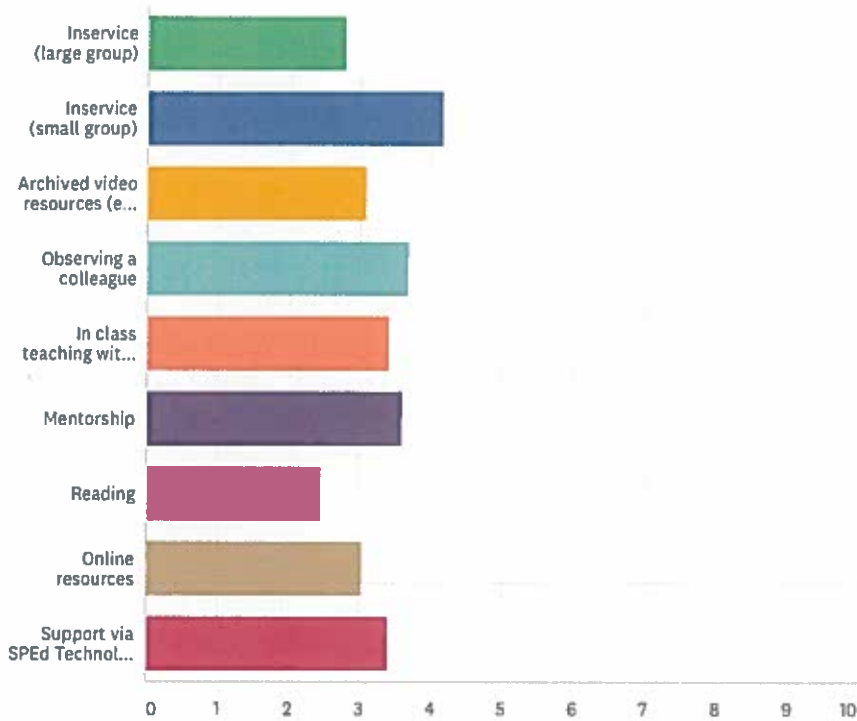
How would you learn best about using software, computers, iPads, iOS devices and other technologies?Please rank your preference for each choice below.

Answered: 149   Skipped: 45
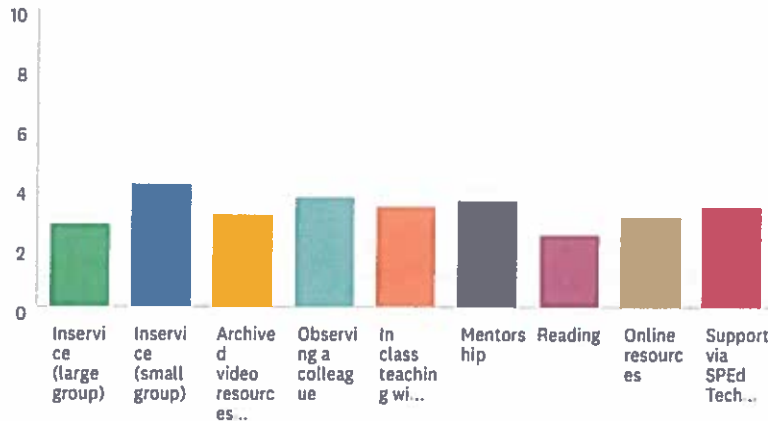
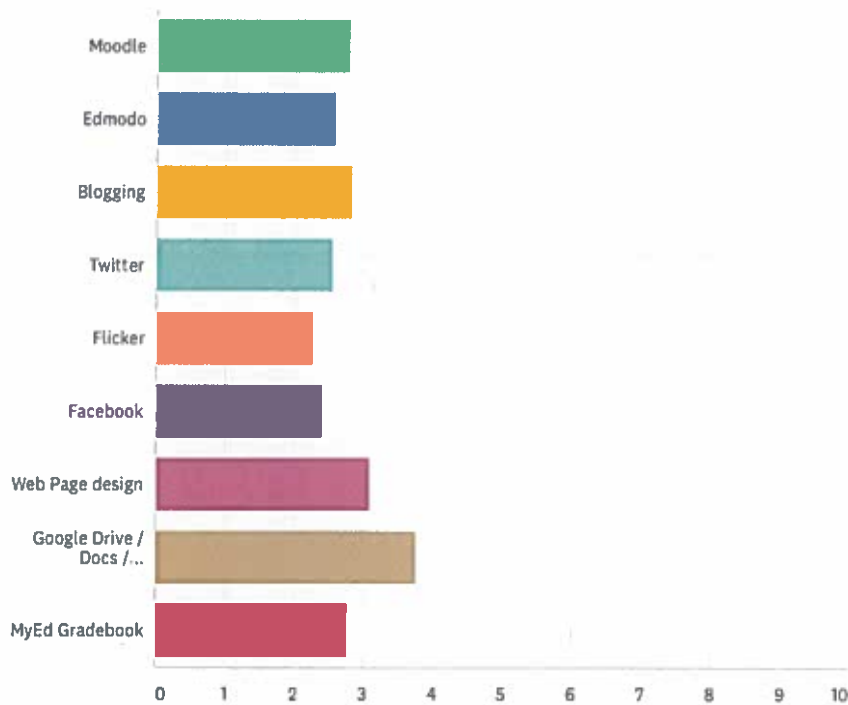|	LEAST DESIRABLE	NOT USUALLY THE DESIRED METHOD	NEUTRAL	USUALLY THE DESIRED METHOD	MOST DESIRABLE METHOD	TOTAL	WEIGHTED AVERAGE
Inservice (large group)	22.38% 32	15.38% 22	30.77% 44	24.48% 35	6.99% 10	143	2.78
Inservice (small group)	2.74% 4	3.42% 5	10.96% 16	40.41% 59	42.47% 62	146	4.16
Archived video resources (e.g: YouTube)	12.50% 18	17.36% 25	31.94% 46	26.39% 38	11.81% 17	144	3.08
Observing a colleague	4.90% 7	6.29% 9	19.58% 28	53.15% 76	16.08% 23	143	3.69
In class teaching with tech support	8.45% 12	11.27% 16	30.28% 43	30.28% 43	19.72% 28	142	3.42
Mentorship	4.96% 7	6.38% 9	31.91% 45	37.59% 53	19.15% 27	141	3.60
Reading	24.29% 34	24.29% 34	36.43% 51	12.86% 18	2.14% 3	140	2.44
Online resources	9.09% 13	20.98% 30	34.97% 50	27.27% 39	7.69% 11	143	3.03
Support via SPEd Technology Coordinator	6.21% 9	8.28% 12	35.17% 51	37.93% 55	12.41% 18	145	3.42

What area of using technology are you most interested in? Please rank your preference for each choice below.
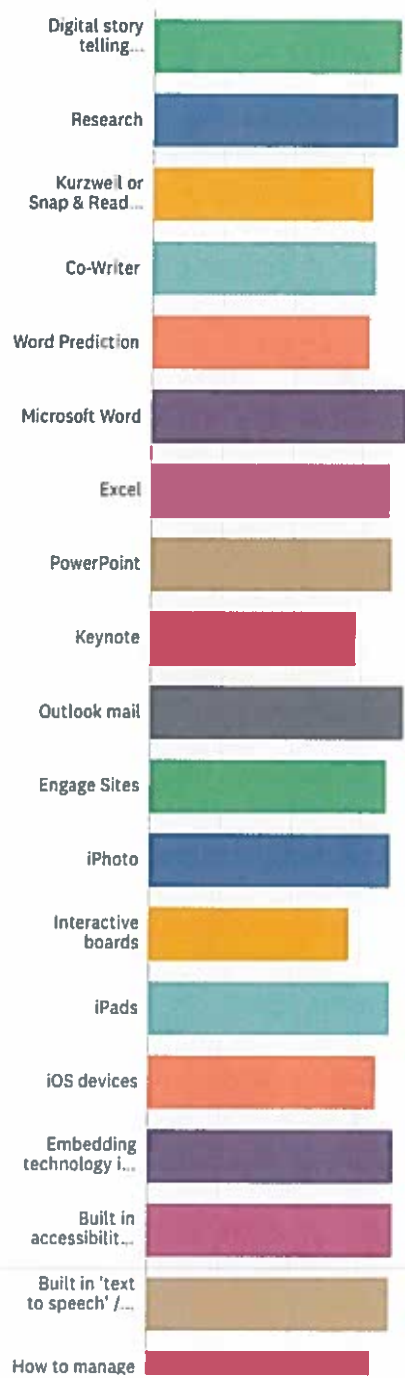
What web resources are you interested in? Please rank your preference for each choice below.

Answered: 142   Skipped: 52

	LEST DESIRABLE	NOT USUALLY THE DESIRED METHOD	NEUTRAL	USUALLY THE DESIRED METHOD	MOST DESIRABLE METHOD	TOTAL	WEIGHTED AVERAGE
Moodle	21.54% 28	12.31% 16	40.77% 53	16.92% 22	8.46% 11	130	2.78
Edmodo	19.35% 24	16.13% 20	54.03% 67	8.06% 10	2.42% 3	124	2.58
Blogging	19.08% 25	15.27% 20	36.64% 48	22.90% 30	6.11% 8	131	2.82
Twitter	30.23% 39	10.85% 14	38.76% 50	13.95% 18	6.20% 8	129	2.55
Flicker	32.54% 41	17.46% 22	43.65% 55	5.56% 7	0.79% 1	126	2.25
Facebook	30.47% 39	17.97% 23	35.16% 45	12.50% 16	3.91% 5	128	2.41
Web Page design	15.75% 20	12.60% 16	31.50% 40	26.77% 34	13.39% 17	127	3.09
Google Drive / Docs / Classroom	9.02% 12	2.26% 3	21.80% 29	37.59% 50	29.32% 39	133	3.76
MyEd Gradebook	23.48% 31	11.36% 15	38.64% 51	16.67% 22	9.85% 13	132	2.78

Comments (14)

If you are at a proficient skill level in one or more areas in the use of technology in your job, would you be willing to give a workshop to others?

Answered: 144   Skipped: 50
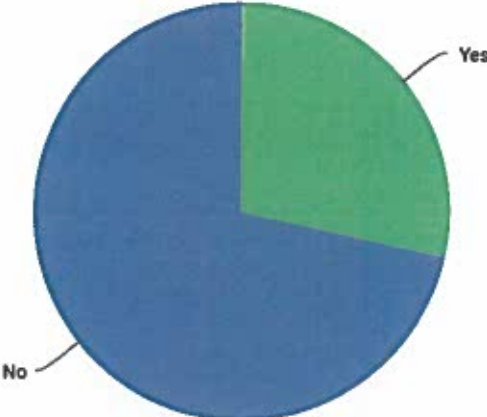
Q17 Please indicate what you would be interested in giving a workshop on (give appropriate age / grade topic is designed for)...please also give your name or send an email directly to pluporini@sd46.bc.ca

Answered: 24   Skipped: 170

#	RESPONSES	DATE
1	na	5/7/2018 10:56 AM
2	I would be interested in giving a workshop to EAs to help them to be more computer proficient- I feel this this is an area that really needs supporting so that EAs can better support the teacher and students.	5/7/2018 7:30 AM
3	Songwriting 101 (Garageband Basics)	5/6/2018 1:41 PM
4	Final Cut Pro	5/5/2018 11:44 AM
5	setting up a server for Support Teachers	5/4/2018 4:46 PM
6	I have given workshops on various tech topics in the past both in this district and at conferences in Vancouver. Currently, I tend to present on the topic of instructional design for online learning environments. I gave a workshop on designing online courses for the new curriculum at the BCDL conference last month. I have been asked to present this in Sept for the Vancouver Learning Network. I don't know how much interest there is in this locally. I could present on anything to do with online learning.	5/4/2018 3:19 PM
7	Google suite	5/4/2018 3:11 PM
8	Excel, Outlook Mail and Engage, Tech Web Help Desk, MyEducation BC	5/4/2018 3:10 PM
9	Video production for intermediate (story board, script, shoot and post-produce)	5/1/2018 8:09 AM
10	Excel	4/30/2018 2:09 PM
11	Music LSA: music related apps (Steve Karagianis)	4/30/2018 9:53 AM
12	Blended learning, flipped classroom Richard Biel	4/30/2018 6:44 AM
13	programming, MyBluePrint, microbits. Any age	4/28/2018 11:22 AM
14	Classroom blog PowerPoint	4/28/2018 7:50 AM
15	Math - SmartBoard, Ti-Nspire, MathType (equation editor) software	4/28/2018 6:48 AM
16	Hi Phil it's Gord here. I could give a talk on specific topics in the intermediate technology curriculum. Many teachers have very low expectations or just don't know what to teach kids. I have boatloads of projects and ideas to share.	4/27/2018 11:18 PM
17	Basic iPhone photography-but not an expert myself but have done some learning in this online, plus 10 years working in photo finishing industry	4/27/2018 9:49 PM
18	MyEd for counselling purposes	4/27/2018 9:09 PM
19	.	4/27/2018 8:45 PM
20	Elementary...all tech except smartboards Pam Kaatz	4/27/2018 8:23 PM
21	I am pretty open to give eorkshops in most techology but smartboards and senteos are top. April McKnight	4/27/2018 7:16 PM
22	All areas of technology	4/27/2018 6:43 PM
23	Sandy has already come and done an inservice on text to speech, etc. Would love to have her maybe work with a couple teachers and we can hold another hands on workshop.	4/27/2018 6:41 PM
24	Microsoft Excel- Graphing; data analysis	4/25/2018 12:55 PM

# Would you be willing to assist a colleague in the use of technology in their job?

Answered: 145   Skipped: 49
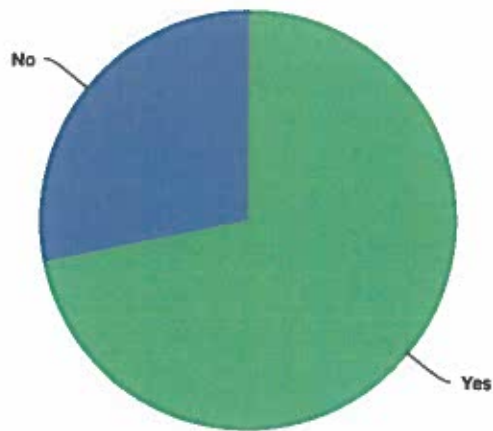
ANSWER CHOICES	▼	RESPONSES	▼
▼ Yes		71.72%	104
▼ No		28.28%	41
TOTAL			145

This question relates to computer replacement for teachers. Your computers are nearing their end of life and we are looking at replacement. Please give your thoughts for computer replacement. If you have a first and second choice please indicate that too.
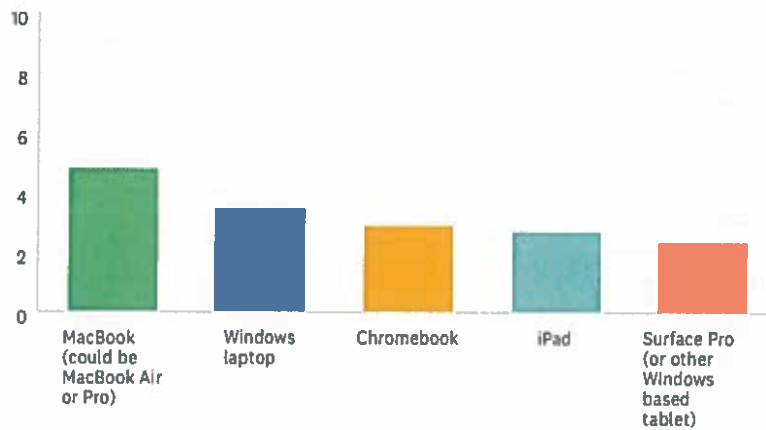
	1	2	3	4	5	TOTAL	SCORE
▼ MacBook (could be MacBook Air or Pro)	89.00% 89	5.00% 5	4.00% 4	0.00% 0	2.00% 2	100	4.79
▼ Windows laptop	12.24% 6	51.02% 25	12.24% 6	18.37% 9	6.12% 3	49	3.45
▼ Chromebook	4.55% 2	27.27% 12	31.82% 14	25.00% 11	11.36% 5	44	2.89
▼ iPad	1.96% 1	31.37% 16	21.57% 11	25.49% 13	19.61% 10	51	2.71
▼ Surface Pro (or other Windows based tablet)	11.63% 5	11.63% 5	18.60% 8	13.95% 6	44.19% 19	43	2.33

Appendix D: 2018 - 2023 Technology Plan Implementation Timeline

Component	Action	How?	2018/19				2019/20				2020/21				2021/22				2022/23			
			SU	F	W	SP	SU	F	W	SP	SU	F	W	SP	SU	F	W	SP	SU	F	W	SP
Network Infrastructure	Review Wireless network and address areas of weakness	Consult with site staff to address any issues. Review weaknesses through Aerohive networks. Create a priority list for replacements and upgrades.	X			X	X			X	X			X	X			X	X			X
	Upgrading to Gbit managed switches	Budget for replacement units and include switches in the schedule for upgrades	X				X				X				X				X			
	Monitor replacement plan for key components of infrastructure	Review replacement plan schedule (Appendix A)and address problem areas and the evolving needs of the district including purchasing new hardware to support those needs. See Appendix A for details.		X				X				X				X						X
Security	School District 46 will create a Disaster Recovery Plan	Develop a Technology Disaster Recovery Plan to ensure that we have guidelines and protocols in place in case of any major technological disaster.		X																		
	Perform risk assessment on a regular review cycle	Perform risk assessments annually based on the outline provided in the Technology Disaster Recovery Plan.						X				X				X				X		
	Educate staff on ways to promote and enforce internet safety	Best practices for internet safety will be reviewed annually. Resources and information will be posted on the Technology Corner Engage Site and reinforced at the School Operations Workshop.	ONGOING																			
	Creating PIAs for any software that houses personal information	Create PIA utilizing ERAC resources when available.	AS NEEDED																			
	Update/review PIB	Gather new information about collections of personal data that are not included in PIB or no longer exist; update PIB accordingly.	X				X				X				X				X			
	Schools will review with students and staff the guiding principles for electronic and social media communication	The Technology Department will collaborate with administrators to ensure that each school is reviewing with staff and students about electronic and social media communication.		X				X				X				X				X		

Appendix D: 2018 - 2023 Technology Plan Implementation Timeline

Component	Action	How?	2018/19 SU	F	W	SP	2019/20 SU	F	W	SP	2020/21 SU	F	W	SP	2021/22 SU	F	W	SP	2022/23 SU	F	W	SP
Computer Hardware	Continue to implement and add to the replacement plan for computer technology	Review aging district hardware and adjust replacement plan as necessary (see Appendix A). As new hardware is purchased, replacement plan will be adjusted to include any new considerations for replacement.							ONGOING														
Other Technology Hardware	Standardize purchases of technology for use within the district	Continue to guide staff to make any technology purchases through the webhelpdesk. The tech team will consult together when purchasing new technology to ensure a seamless integration with the current infrastructure and to ensure standard products are purchased.							ONGOING														
	Ensure schools and departments are budgeting for cost of replacing aging technology	Encourage administrators, during budgeting time, to consider the aging equipment in their schools that need replacing that are not included in Appendix A.				X				X				X				X				X
Software	Review Cloud-based software	Continue to review requests for cloud based software and ensure that the district does not utilize software that breaches FOIPPA.							AS NEEDED														
	Vet apps as requests are received and update vetted apps list	Review the list of vetted apps and add and remove apps as necessary.							AS REQUESTED														
	Promote and educate staff on ERAC resources	Provide resources through online opportunities and the Technology Corner Engage site.	X		X		X		X		X		X		X		X		X		X	
	Promote proprietary software	Promote software that has been developed specifically for educational needs and encourage schools to use software that has already been implemented within the district such as Microsoft Office, FreshGrade, MyBluePrint, MyEducationBC, etc.							ONGOING														

Appendix D: 2018 - 2023 Technology Plan Implementation Timeline

Component	Action	How?	2018/19				2019/20				2020/21				2021/22				2022/23			
			SU	F	W	SP	SU	F	W	SP	SU	F	W	SP	SU	F	W	SP	SU	F	W	SP
Training and Support	Develop a training and support model	Develop a training and support model that will address concerns regarding training for new software and hardware.						X					X		X						X	
	Showcase the resources available to staff currently	Ensure that information through the district Engage sites include details for resources available to staff including ERAC, Destiny Resources, vetted apps, MyEducationBC, etc.									ONGOING											
	Continue to receive feedback as to effective delivery models for training	Receive and review feedback from all employee groups. Create a technology survey to be completed biennially by staff to help guide technology initiatives in the school district.								X								X				
	Implement a live streaming/archiving option for training sessions	Install hardware to facilitate recording and live streaming of training sessions taking place. Initially, the Sechelt Learning Centre will be the pilot site.		X																		
Communication	Review how we use technology to communicate with all partners in education	Continue to put out a public survey every three years to assess the best ways to communicate with staff, parents and the community.												X								
	Implement a new and updated district website	Currently working with the successful vendor to create the new School District 46 website.						X														
	Implement new and updated websites for all schools / sites / programs.	Develop new websites for all schools / sites / programs that reflect the template/format of the new district website. Training will be provided prior to going live and on an ongoing basis.				X		X	X	X				X				X				X