

Vernon Public Schools

Educational Technology Plan (Working Document) 2016 - 2019

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Key- **Green** done

Yellow in process

Red on hold

Purple addition/change

Vision Statement

Vernon Public Schools staff is committed to engaging our students as active users of technology.



Graphic from page 18 of National Educational Technology plan 2016.

Vernon Public Schools Belief Statements

VPS students will:

- experience a variety of technology throughout their academic careers and take these skills forward to enhance their future learning.
- have regular meaningful interactions with technology of all types in all disciplines and grades in order to build their creativity, collaboration and independence.
- have equal access to technology throughout the school day to enhance learning.

VPS teachers will:

- use technology to enhance instruction and promote critical thinking
- transform passive use to active and innovative use of technology
- utilize technology as a tool for facilitating and showcasing student learning.
- provide instruction experience a variety of technology throughout their academic careers and take these skills forward to enhance their future learning.

Goal 1: Learning --Engaging and Empowering Through Technology

1.0 All learners will have engaging and empowering learning experiences in both formal and informal settings that prepare them to be active, creative, knowledgeable, and ethical participants in our globally connected society.

Objective: Implement high-quality, technology-supported shared learning experiences for all students.

<i>Action steps:</i>	<i>Completion Date:</i>	<i>Who is responsible?</i>
K-5 Technology Scope and Sequence	June, 2016	Tech Integ Specialist and Tech Contacts
Technology Scope and Sequence Checklist	September, 2016	Tech Integ Specialist and Tech Contacts
Update Technology Scope and Sequence for the new ISTE Standards for Students	June, 2018	Tech Integ Specialist and Tech Contacts
Develop (K-5) Technology Lessons Identify grade level resources/lessons to support technology instruction	On-going/2016-17	Tech Integ Specialist and Tech Contacts
Determine Type To Learn Renewal beyond 2016-17 year	June, 2018	Tech Integ Specialist and Tech Contacts
Develop web pages for Elementary Lab use	On-going 2016-17	Tech Integ Specialist And Tech Contacts
Evaluate iPad use in K-2 (include suggested math apps as math curriculum is written)	On-going 2016-18	Math Interventionists Tech Integ Specialist and Tech Contacts
Evaluate and Revise Elementary Lab Activities	2017-2018	Tech Integ Specialist and Tech Contacts
Embed technology-supported shared learning experiences into the language arts and writing curriculum. (Focus on	June, 2018	Tech Integ Specialist Curriculum Coaches Interventionists and Teachers

<p>active uses of technology.) Examples include: 2nd grade student videos in launch unit and 5th grade Board Builder in Unit 2.</p> <p>Build Best Practices of Technology in Elementary School (Focus on active use of technology.) Examples include: Padlet, Socrative, Google Docs (several schools using shared school login to Google)</p>	<p>On-going</p>	<p>Tech Contacts, Tech Integ Specialist and Teachers</p>
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<i>Action steps:</i>	<i>Completion Date:</i>	<i>Who is responsible?</i>
<p>6-8</p> <p>Embed technology-supported learning experiences across the curricular areas.</p> <ul style="list-style-type: none"> - 8th grade 1:1 language arts, science and social studies and 7th grade pilot classes. Teachers will use Google Classroom to facilitate learning. - 7th grade 1:1 language arts, science and social studies. Teachers will use Google Classroom to facilitate learning. - 6th grade pilots of Google Classroom - Fully implement 1:1 and Google Classroom in grades 6-8 <p>Build Best Practices of Technology in Middle School. (Focus on active use of technology.)</p>	<p>On-going</p> <p>2016-2017</p> <p>2017-2018</p> <p>2017-2018</p> <p>2018-2019</p> <p>On-going</p>	<p>Classroom Teachers, Tech Contacts, and Tech Integ Specialist</p> <p>Classroom Teachers, Tech Contacts, and Tech Integ Specialist</p>

<i>Action steps:</i>	<i>Completion Date:</i>	<i>Who is responsible?</i>
<p>9-12 Embed technology supported learning experiences across the curriculum</p> <ul style="list-style-type: none"> - Science pilot of Google Classroom - Identify Google Classroom Pilots - Google Classroom pilot in Matyseck, Hoffman and Mendelson. - 1:1 for 9th and 10th in early February, 2017 through ELA. - 1:1 for 9th - 11th in TBD. - 1:1 for 9th - 12th in TBD. <p>Build Best Practices of Technology in High School. (Focus on active use of technology.) Example: Bahler - Padlet; Hunt - Kahoot</p>	<p>Spring, 2016</p> <p>Fall, 2016</p> <p>Fall, 2016</p> <p>Spring, 2017</p> <p>Fall, 2018</p> <p>Fall, 2019</p> <p>On-going</p>	<p>Jill Williams</p> <p>RHS Admin</p> <p>RHS Teachers and Tech Integ Specialist</p> <p>RHS Teachers and Tech Integ Specialist</p> <p>RHS Teachers and Tech Integ Specialist</p> <p>RHS Teachers and Tech Integ Specialist</p> <p>Tech Contacts, Tech Integ Specialist and Classroom Teachers</p>

Matrix of Active Use of Technology (Base for Best Practice Lessons)

Area	K-5	6-8	9-12
Coding	Kodable Code.org Scratch (5th) Daisy the Dinosaur app	Code.org Scratch	Code.org Scratch
Immersive Simulation		BridgeContest.org Twine Game (Miller) Minecraft Roblox	BridgeContest.org
Media Production	Adobe Voice app Show Me app iMovie Puppet Pals	iMovie Podcasting GarageBand Morning Announcements	Podcasting
Interaction with Experts	Skype	Skype Message boards	Skype Message boards
Global Connections	Skype (between schools)	Skype Google Translate	Skype
Design			
Peer Collaboration	- Google Drive to share documents and data - PBWorks wiki pages	Google Drive to share documents and data	Google Drive to share documents and data

Coding - language of computers, instructions/directions, problem solving

“Think of coding as a spelling test where a sentence must have words properly ordered with grammar and mechanics and if something is wrong or out of order it will not make sense.”

Immersive Simulation - technology that blurs the line between the physical and simulated world ie. Minecraft

Media Production - creation of media used to communicate, entertain or inform

Interaction with Experts - communication outside the classroom walls to inform; message boards

Global Connections - communication outside the classroom; projects with students outside the country

Design - computer aided multimedia; ie. brochure

Goal 2: Teaching -- Teaching with Technology

2.0 Educators will be supported by technology that connects them to people, data, content, resources, expertise, and learning experiences that can empower and inspire them to provide more effective teaching for all learners.

Objective: Professional development for technology integration

<i>Action steps:</i>	<i>Completion Date:</i>	<i>Who is responsible?</i>
K-5 Initial Google Training	Fall, 2015	Tech Contacts and Tech Integ Specialist
Training for tech contacts	Spring, 2016	CREC
Technology Skills Survey for Staff	Spring, 2016	Tech Contacts
Develop Teacher Bottom Lines for Technology Integration	Build activities into curriculum	Asst. Superintendent Tech Integ Specialist and Tech Contacts
Additional training for Google, iPads and SMARTboards embedded in curriculum training.	On-going	Tech Integ Specialist Tech Contacts and Curriculum Coaches
Backupify Training for teachers to restore data	Spring, 2017	IT, Tech Integ Spec, and Tech Contacts

<i>Action steps:</i>	<i>Completion Date:</i>	<i>Who is responsible?</i>
6-8 Initial Google Training	November, 2015	Bryan Wright and Chuck Martucci
Beginning (25) and Advanced (21) Google Forms	February, 2016	Keith Miller and Mike Savignano
Introduction to Google Classroom (all)	March, 2016	CREC Trainer

<p>Google Classroom Part 2</p> <p>Develop Teacher Bottom Lines for Technology Integration</p> <p>GoGuardian or Hapara Training for 8th grade core classroom teachers</p> <p>Backupify Training for teachers to restore data</p> <p>UMRA Training for teachers to reset student passwords</p> <p>Additional Google training as needed based on survey results</p>	<p>April, 2016</p> <p>Build activities into curriculum.</p> <p>On HOLD</p> <p>Spring, 2017</p> <p>Fall, 2016</p> <p>On-going</p>	<p>CREC Trainer</p> <p>Asst. Superintendent Tech Integ Specialist and Tech Contacts</p> <p>IT, Tech Integ Spec, and Tech Contacts</p> <p>IT, Tech Integ Spec, and Tech Contacts</p> <p>IT, Tech Integ Spec, and Tech Contacts</p> <p>CREC, Tech Contacts and Tech Integ Specialist</p>
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<i>Action steps:</i>	<i>Completion Date:</i>	<i>Who is responsible?</i>
<p>9-12</p> <p>Initial Google Training Beginning (17) and Advanced (5) Google Forms</p> <p>Introduction to Google Classroom (15)</p> <p>Develop Teacher Bottom Lines for Technology Integration</p> <p>Backupify Training for teachers to restore data</p> <p>UMRA Training for teachers to reset student passwords</p>	<p>November, 2015 February, 2016</p> <p>April, 2016</p> <p>Build activities into curriculum</p> <p>Spring, 2017</p> <p>Fall, 2016</p>	<p>Chuck Martucci and Bryan Wright Keith Miller and Mike Savignano</p> <p>CREC</p> <p>Asst. Superintendent Tech Integ Specialist and Tech Contacts</p> <p>IT, Tech Integ Spec, and Tech Contacts</p> <p>IT, Tech Integ Spec, and Tech Contacts</p>

Additional SMARTboard and Google training as needed based on survey results	On-going	CREC, Tech Contacts and Tech Integ Specialist
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Goal 3: Leadership – Creating a Culture for Innovation and Change

3.0 Embed an understanding of technology-enabled education within the roles and responsibilities of education leaders at all levels and set state, regional, and local visions for technology in learning.

Objective: Build a coalition of Google Certified Staff.

<i>Action steps:</i>	<i>Completion Date:</i>	<i>Who is responsible?</i>
K-12 teachers, who choose, will complete their Google Certification. Level 1 - 32 teachers and 1 administrator Level 2 - 4 teachers	Fall, 2016	CO Administration
Offer a 2nd round of contracts for Google Certification (dependant upon funding)	June, 2017	CO Administration
Evaluate stipends for re-certification based on Google certification updates.	June, 2018	CO Administration

Goal 4: Assessment – Measuring for Learning

4.0 *At all levels, our education system will leverage the power of technology to measure what matters and use assessment data to improve learning.*

Objective: Provide opportunities for students to participate in teacher created on-line assessments.

<i>Action steps:</i>	<i>Completion Date:</i>	<i>Who is responsible?</i>
<p>K-12 Professional development offerings for “how to” use Google Tools and using technology tools for creating assessments. (For example: padlet vs. sticky note; Google form vs. paper, Kahoot, Socrative, etc.)</p>	On-going	Tech Integ Spec, Tech Contacts and Google Certified Educators

<i>Action steps:</i>	<i>Completion Date:</i>	<i>Who is responsible?</i>
<p>K-5 Begin to embed teacher created on-line assessments into the language arts and math curriculum.</p>	Develop during 2016 - 2017	Teachers, Curric. Coaches, Tech Integ Spec, and Interventionists
<p>Revise and pilot teacher created on-line assessments into the language arts and math classrooms</p>	Revise during 2017-2018	Teachers, Curric. Coaches, Tech Integ Spec, and Interventionists
<p>Fully implement teacher created on-line assessments into the language arts and math classrooms</p>	Implement during 2018 - 2019	Teachers, Curric. Coaches, Tech Integ Spec, and Interventionists

Goal 5: Infrastructure – Enabling Access and Effective Use

5.0: All students and educators will have access to a robust and comprehensive infrastructure when and where they need it for learning.

Objective: Access to cloud-based resource - Google Drive (ie. Docs, Slides, Classroom, Forms and add-ons; chrome extensions & apps)

<i>Action steps:</i>	<i>Completion Date:</i>	<i>Who is responsible?</i>
Acceptable Use Guidelines (drafts done)	Spring, 2016	CO Administration
Backupify - Backup solution for data (teachers will be able to restore data)	Spring, 2016	IT
Teacher monitoring tool pilot test GoGuardian and Hapara	Spring, 2016	IT (Jeremy), Keith and Mike
VCMS 8th grade device label information homeroom number and chromebook number.	June, 2016	VCMS to IT
Review procedure when new student comes into District (ie. Who notifies IT to get account created in a consistent/timely manner?)	August, 2016	Asst. Superintendent Tech Integ and IT
Pop up AUP agreement when you login	August, 2016	IT
Google accounts for students in 6-12 UMRA working to allow teachers to reset pwd	August, 2016	IT
Devices/carts prepared and delivered to homerooms at VCMS	August, 2016	IT & VCMS staff
Teacher monitoring tool in place (will need to be populated with student account information - teachers or it??)	September, 2016 On HOLD	IT and Data Manager

Better Cloud (monitors Google Drive) needs a policy for what to monitor in Google accounts	September, 2016	IT
VCMS spare devices for 8th grade students	September, 2016	IT & VCMS Admin
RHS student names for rollout to IT (9-10 and maybe a few “lucky Juniors/Seniors”)	Fall, 2016	RHS Admin
Distribution/collection Plan RHS	Winter 2016-17	RHS Admin
Chromebook prep & labelling for RHS	Winter 2016-17	IT
Distribution of 1:1 at RHS (9th-10th)	FEB/MAR 2017	IT, RHS Staff and Tech Integ Spec
Google Accounts available for students in grades 3-5	March, 2017	IT
RHS -Help desk window for students	January, 2017	IT and RHS Admin
AP devices coming up on replacement	January, 2017	IT and Budget
Evaluation 8-10th rollouts and plan for 7th and 11th rollouts	Spring, 2017	CO Admin, IT, RHS, VCMS, Tech Integ Spec
Explore possible Google Classroom export to Aspen	?	CO Admin ??
Look at timeline and what should be moved off shared drives and be kept.	June, 2018	CO Admin and IT
Investigate GMail for staff, high school and middle school students (FOI and archiving/journaling email is the concern)	June, 2018	CO Admin, IT, Tech Integ Spec and Tech Contacts

Rollout for 7th and “9th” (FINALIZED and add to this working document)	June, 2017	CO Admin, IT and Tech Integ Spec
Rollout for 6th and “9th” (FINALIZED and add to this working document)	June, 2018	CO Admin, IT and Tech Integ Spec
Website link for students to use to change their network password. (Need a work around for when desktops are no longer available.)	June, 2018	IT
Windows beyond version 7 (xp computers will not support; TRAINING will be needed for staff)	June, 2018	IT

Objective: Define “model” for technology at all levels and prioritize purchasing.

<i>Action steps:</i>	<i>Completion Date:</i>	<i>Who is responsible?</i>
<ul style="list-style-type: none"> Evaluate need for additional iPads in K-2 and some available for 3-5. 	June, 2017	CO Admin, IT and Tech Contacts
<ul style="list-style-type: none"> Evaluate need for Webmaster 1 iPad to be shared with school staff 	June, 2017	CO Admin, IT and Tech Contacts
<ul style="list-style-type: none"> K-12 Classroom teachers: docking station, laptop, and projector/smartboard 	June, 2019	CO Admin and IT
<ul style="list-style-type: none"> In addition, for elementary: <ul style="list-style-type: none"> - K-2 6 iPads per classroom - K-2 access to chromebooks - K-2 special ed teacher 4 iPads - 3-5 chromebook in carts - K-5 Music 6 iPads - K-5 Math Interventionist 	June 2019	CO Admin and IT

<p>3 ipads and 11 chromebooks - K-12 Art Teachers 1 iPad</p> <ul style="list-style-type: none"> Evaluate whether Elementary computer labs will be maintained beyond June, 2019 	June, 2019	CO Admin, IT and Tech Contacts
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3 year 1:1 Initiative

	2014 - 2015	2015 -2016	2016-17	2017-18	2018-19	2019-20	cost/ unit
Grade 1:1	none	none	8, 9 & 10	7 thru 11	6 thru 12	6 thru 12	
Chrome book	ES 0 MS 25 HS 44	ES 136 MS 85 HS 29	ES 95 MS 275 HS 466	ES 25 MS 270 HS 190	ES MS HS	ES MS HS	\$268
iPads	ES 5 MS 0 HS 15	ES 106 MS 12 HS 2	ES 131 MS 0 HS 0	ES 68 MS HS	ES MS HS	ES MS HS	\$680
Laptops	ES 29 MS 13 HS 15	ES 33 MS 15 HS 18	ES 91 MS 21 HS 41	ES MS 2 HS	ES MS HS	ES MS HS	\$1125
Projectors			ES MS HS	ES 17 MS 23 HS 24			\$2400
Est Cost Replace	\$96,217	\$222,850					

RHS

<i>Action steps:</i>	<i>Completion Date:</i>	<i>Who is responsible?</i>
<p>41 Teacher Laptops 16 Projectors installed 15 Chromebooks and cart for TALC 10 Chromebooks for HOPE</p>	Fall, 2016	CO Admin, RHS Admin and IT

<p>441 Chromebooks for RHS 1:1</p> <p>___ Teacher Laptops ___ Docking Stations ___ Projectors installed</p> <p>___ Teacher Laptops ___ Docking Stations ___ Projectors installed</p> <p>Computer Labs: Art-Rebecchi (Mac) (2016) Art-Timberman VoAg (Mac Lab) Business-Martucci (2016?) Business-Smith (2016) Business-Nimmo (2014) Business-Jedidian (2013) Video Editing - Wright (Mac) (2011) Graphic Arts - Wright (Mac) (2011) Technology Ed - Frost (2013 or 2014) TE drafting - Beland (2015) Career Center Blended Learning-Dickinson (2016) Language Lab (2015) Library (2008 and 2009)</p> <p>Labs to be gone after June, 2019? Language Lab, Writing, SS, LA, Blended Learning?</p>	<p>Fall, 2017</p> <p>Fall, 2018</p> <p>Labs to be maintained (some are grant funded)</p>	
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VCMS

<i>Action steps:</i>	<i>Completion Date:</i>	<i>Who is responsible?</i>
<p>20 Teacher Laptops 1 Library Laptop 28 Docking Stations 9 Projectors installed 235 Chromebooks for 8th Grade Students 5 Chromebooks for Tuller 1:1 25 Chromebooks for Sara Green 4 Chromebooks for Math Intervention 10 Chromebooks for Art</p>	<p>Fall, 2016</p>	<p>CO Admin, VCMS Admin and IT</p>

<input type="checkbox"/> Teacher Laptops <input type="checkbox"/> Docking Stations <input type="checkbox"/> Projectors installed	Fall, 2017	
<input type="checkbox"/> Teacher Laptops <input type="checkbox"/> Docking Stations <input type="checkbox"/> Projectors installed	Fall, 2018	
Library Lab and room 21 gone after 2019? Computer Education - Schmitt (5 years) Computer Education - Reardon (3 years) Tech Ed - Strong (2014)	Labs to be maintained	

Center Road

<i>Action steps:</i>	<i>Completion Date:</i>	<i>Who is responsible?</i>
23 Teacher Laptops 1 Library Laptop 2 Projectors 12 additional iPads to get 6 per K-2 room 6 iPads for music 4 iPads Special Ed 15 iPads iSpire 3 iPads Math Intervention 4 Chromebooks Math Intervention 25 Chromebooks and cart	Fall, 2016	CO Admin, CRS Admin and IT
<input type="checkbox"/> Teacher Laptops <input type="checkbox"/> Docking Stations Conference room Projection?	Fall, 2017	
<input type="checkbox"/> Teacher Laptops <input type="checkbox"/> Docking Stations	Fall, 2018	

Lake Street

<i>Action steps:</i>	<i>Completion Date:</i>	<i>Who is responsible?</i>
9 Teacher Laptops 1 Library Laptop 3 Projectors 6 additional iPads to get 6 per K-2 room 6 iPads for music 4 iPads Special Ed 3 iPads Math Intervention 4 Chromebooks Math Intervention ___ Teacher Laptops ___ Docking Stations Conference room Projection?	Fall, 2016 Fall, 2017	CO Admin, LSS Admin and IT
___ Teacher Laptops ___ Docking Stations	Fall, 2018	

Maple Street

<i>Action steps:</i>	<i>Completion Date:</i>	<i>Who is responsible?</i>
17 Teacher Laptops 1 Library Laptop 1 Projector 9 additional iPads to get 6 per K-2 room 6 iPads for music 4 iPads Special Ed 3 iPads Math Intervention 4 Chromebooks Math Intervention 25 Chromebooks and cart ___ Teacher Laptops ___ Docking Stations Conference room Projection?	Fall, 2016 Fall, 2017	CO Admin, MSS Admin and IT

<input type="checkbox"/> Teacher Laptops <input type="checkbox"/> Docking Stations	Fall, 2018	
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Northeast

<i>Action steps:</i>	<i>Completion Date:</i>	<i>Who is responsible?</i>
14 Teacher Laptops 1 Library Laptop 1 Projector 15 additional iPads to get 6 per K-2 room 6 iPads for music 4 iPads Special Ed 3 iPads Math Intervention 4 Chromebooks Math Intervention <input type="checkbox"/> Teacher Laptops <input type="checkbox"/> Docking Stations Conference room Projection?	Fall, 2016 Fall, 2017	CO Admin, NES Admin and IT
<input type="checkbox"/> Teacher Laptops <input type="checkbox"/> Docking Stations	Fall, 2018	

Skinner Road

<i>Action steps:</i>	<i>Completion Date:</i>	<i>Who is responsible?</i>
23 Teacher Laptops 1 Library Laptop 1 Projector 9 additional iPads to get 6 per K-2 room 6 iPads for music	Fall, 2016	CO Admin, SRS Admin and IT

<p>4 iPads Special Ed 3 iPads Math Intervention 4 Chromebooks Math Intervention 25 Chromebooks and cart</p> <p>__ Teacher Laptops __ Docking Stations Conference room Projection</p> <p>__ Teacher Laptops __ Docking Stations</p>	<p>Fall, 2017</p> <p>Fall, 2018</p>	
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