

# Vernon Public Schools

## Educational Technology Plan (Working Document) 2019 - 2022

### [Vision Statement](#)

[Goal 1: Learning -- Engaging and Empowering Through Technology](#)

[Goal 2: Teaching -- Teaching with Technology](#)

[Goal 3: Leadership -- Creating a Culture for Innovation and Change](#)

[Goal 4: Assessment -- Measuring for Learning](#)

[Goal 5: Infrastructure -- Enabling Access and Effective Use](#)

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

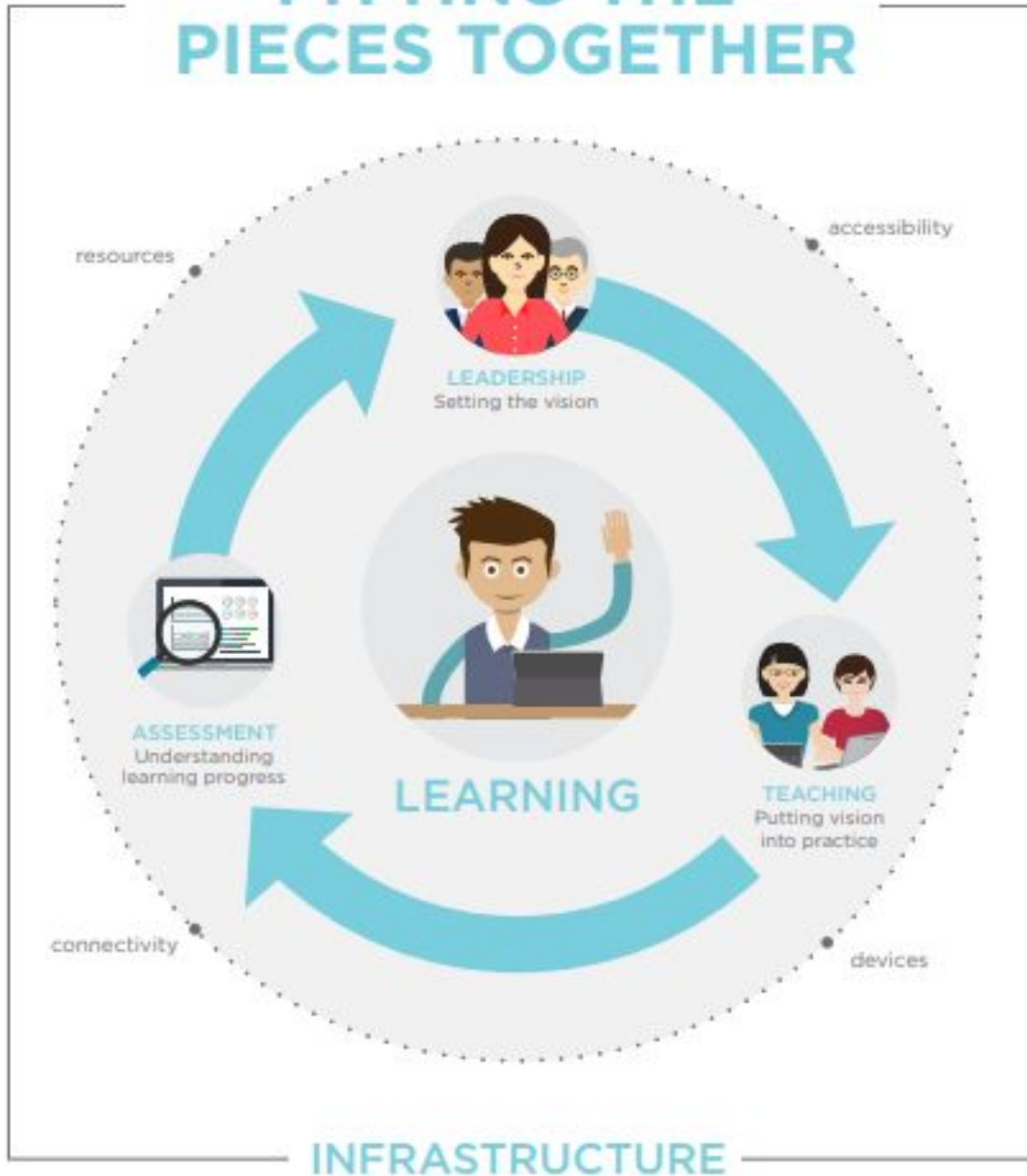
VPS students will:

- 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.

# FITTING THE PIECES TOGETHER



Providing accessibility, resources and connectivity so that learning is everywhere, all the time

**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>
<b>K-5</b>		
Determine Type To Learn Renewal beyond 2019-20 school year	June, 2020	Tech Integ Specialist and Tech Contacts
Update Technology Scope and Sequence for the new ISTE Standards for Students	2019-2020	Tech Integ Specialist and Tech Contacts
Update Skills Checklist for the new ISTE Standards for Students	2019-2020	Tech Integ Specialist and Tech Contacts
Revise web pages for Elementary Lab use	On-going	Tech Integ Specialist
Evaluate iPad use in K-2 (include suggested math apps as math curriculum is written)	On-going	Math Interventionists Tech Integ Specialist and Tech Contacts
Identify the ISTE Student Standards on the technology rich learning experiences in the language arts and writing curriculum. Examples include:4th and 5th grade green screen projects; use of Google Classroom; collaborative writing, research and presentation activities, etc..	On-going	Tech Integ Specialist Curriculum Coaches Interventionists and Teachers

<i>Action steps:</i>	<i>Completion Date:</i>	<i>Who is responsible?</i>
<p><b>6-8</b> Identify the ISTE Student Standards on the technology rich learning experiences in the language arts and writing curriculum.</p>	On-going	Classroom Teachers, Tech Contacts, Curriculum Coach and Tech Integ Specialist
<p>Identify the ISTE Student Standards on the technology rich learning experiences into the technology, social studies, science and foreign language curriculums.</p>	On-going	Classroom Teachers, Tech Contacts, Curriculum Coach and Tech Integ Specialist

<i>Action steps:</i>	<i>Completion Date:</i>	<i>Who is responsible?</i>
<p><b>9-12</b></p> <p>Identify the ISTE Student Standards on the technology rich learning experiences in the language arts and writing curriculum.</p> <p>Identify the ISTE Student Standards on the technology rich learning experiences into the technology, social studies, science and foreign language curriculums.</p>	<p>On-going</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>

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 Alice
Immersive Simulation		BridgeContest.org Twine Game (Miller) Minecraft Roblox	BridgeContest.org
Media Production	Adobe Spark DoInk Green Screen iMovie Puppet Pals	Adobe Spark Flipgrid iMovie Podcasting GarageBand Morning Announcements	DoInk Green Screen iMovie Adobe Spark Flipgrid Podcasting
Interaction with Experts	Double-Robot Face time/Skype/Zoom	Double-Robot Facetime/Skype/Zoom	Double-Robot Face time/Skype/Zoom
Global Connections	FaceTime/Skype/Zoom (between schools)	Face Time/Skype/Zoom Google Translate	Face Time/Skype/Zoom
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

**Peer Collaboration** - working together

**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		
Incorporate technology rich performance tasks into the curriculum.	On-Going	Asst. Superintendent Tech Integ Specialist, Curriculum Coaches and Tech Contacts
Additional training for Google, iPads and SMARTboards embedded in curriculum training.	On-going	Tech Integ Specialist Tech Contacts and Curriculum Coaches

<i>Action steps:</i>	<i>Completion Date:</i>	<i>Who is responsible?</i>
6-8		
Incorporate technology rich performance tasks into the curriculum.	On-going	Asst. Superintendent Tech Integ Specialist, Curriculum Coaches, and Tech Contacts
Additional training for Google, SMARTboards embedded into curriculum training.	On-going	Tech Integ Specialist, Tech Contacts and Curriculum Coaches



<i>Action steps:</i>	<i>Completion Date:</i>	<i>Who is responsible?</i>
<p>9-12</p> <p>Incorporate technology rich performance tasks into the curriculum.</p> <p>Additional SMARTboard and Google training as needed based on survey results</p>	<p>On-going</p> <p>On-going</p>	<p>Asst. Superintendent Tech Integ Specialist, Curriculum Coaches and Tech Contacts</p> <p>Tech Integ Specialist</p>

**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. (Discuss at meeting on 10/17.)

<i>Action steps:</i>	<i>Completion Date:</i>	<i>Who is responsible?</i>
Evaluate stipends for re-certification for the Web-Techs based on Google certification updates.	Currently not renewing	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</p> <p>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</p> <p>Begin to embed teacher created online assessments into the language arts and math curriculum.</p>	Develop during 2019-2020	Teachers, Curric. Coaches, Tech Integ Spec, and Interventionists
<p>Revise and pilot teacher created online assessments into the language arts and math classrooms</p>	Revise during 2020-2021	Teachers, Curric. Coaches, Tech Integ Spec, and Interventionists
<p>Fully implement teacher created online assessments into the language arts and math classrooms</p>	Implement during 2021-2022	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>
Encryption of laptops	2019-2020	IT
Addition of 2nd grade Google Accounts	Summer, 2019	IT
Refreshing oldest iPads in elementary	Fall, 2019	CO admin and IT
VCMS Access Points - update	Spring 2020	IT
Explore possible Google Classroom export to Aspen	Keep watching	Data Manager
GMail for middle school students	Is this a need??	CO & School Admin
Dyknow pilot (RHS and VCMS)	Fall, 2019	Data Manager, Tech Integ, VCMS and RHS staff

**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"> <li>● Docking stations in K-5?</li>   <li>● Docking stations in HS?</li>   <li>● Elementary:               <ul style="list-style-type: none"> <li>- K-2 6 iPads per classroom</li> <li>- K-2 access to chromebooks</li> <li>- K-2 special ed teacher 4 iPads</li> <li>- 2-5 chromebook in carts</li> <li>- K-5 Music 6 iPads</li> <li>- K-5 Art 6 iPads</li> <li>- 1 Green Screen &amp; 6 iPads</li> <li>- K-5 Math Interventionist 3 ipads and 11 chromebooks</li> <li>- K-12 Art Teachers 1 iPad</li> </ul> </li>   <li>● Elementary computer labs will be maintained beyond June, 2019</li> </ul>		

	2019-20	2020-21	2021-22	cost/ unit
Grade 1:1	6 thru 12	6 thru 12	6 thru 12	
Chrome book	ES MS HS	ES MS HS		\$268
iPads	ES MS HS	ES MS HS		\$680
Laptops	ES MS HS	ES MS HS		\$1125
Projectors				\$2400
Est Cost Replace				

**RHS**

<i>Action steps:</i>	<i>Completion Date:</i>	<i>Who is responsible?</i>
Computer Labs: Art-Rebecchi (Mac) (2016) Art-Timberman VoAg (Mac Lab) Business-Martucci (2016?) Business-Smith (2016) Business-Nimmo (2017?) Business-Jedidian (2017?) Video Editing - Wright (Mac) (2018) Graphic Arts - Wright (Mac) (2018) Technology Ed - (2013 or 2014) TE drafting - (2015) Career Center Library (2018)		CO Admin, RHS Admin and IT

**VCMS**

<i>Action steps:</i>	<i>Completion Date:</i>	<i>Who is responsible?</i>
Library Lab and room 21 <b>gone after 2019?</b>  Computer Education - Schmitt (2018) Computer Education - Reardon (2017?) Tech Ed - Strong (2014?)	Labs to be maintained	CO Admin, VCMS Admin and IT

**Center Road**

<i>Action steps:</i>	<i>Completion Date:</i>	<i>Who is responsible?</i>
25 iPads (oldest style)  Lab (2015) <b>Removed Summer 2019</b>  Chromebook carts:		CO Admin, CRS Admin and IT

**Lake Street**

<i>Action steps:</i>	<i>Completion Date:</i>	<i>Who is responsible?</i>
12 iPads (oldest style)  Lab (2015)  Chromebook carts:		CO Admin, LSS Admin and IT

**Maple Street**

<i>Action steps:</i>	<i>Completion Date:</i>	<i>Who is responsible?</i>
12 iPads (oldest style)  <b>Lab (2015) -- Removed Summer 2019</b>		CO Admin, MSS Admin and IT



**Northeast**

<i>Action steps:</i>	<i>Completion Date:</i>	<i>Who is responsible?</i>
29 (Amanda 10 and 19 classroom iPads (oldest style)  Lab (2015)  Chromebook carts:		CO Admin, NES Admin and IT

**Skinner Road**

<i>Action steps:</i>	<i>Completion Date:</i>	<i>Who is responsible?</i>
13 iPads (oldest style)  Lab (2015)  Chromebook carts:		CO Admin, SRS Admin and IT