Weymouth Public Schools 2.0
Technology Improvement Plan Update SY 19-20
Year 4 (2016-2021)

Overview

- **Staffing**

- **Infrastructure**

- **Devices**

- **Integration**

Five-Year Technology Plan History

A 2016 Independent assessment concluded that WPS needed significant investment in the following technology areas to meet requirements for state testing and achieve educational goals.

- **Support Staffing**
  - Expand support team with vision for the future
- **Infrastructure**
  - Increase Internet Bandwidth
  - Robust Network Backbone
  - Reliable wireless in every classroom
- **Devices**
  - Update all devices and 1:1 for staff and students
  - Promethean Interactive LCD Panels replace all old projectors
- **Technology Integration**
  - Ensure teachers and students are using technology effectively to meet educational goals

Technology Department Staffing

2016 — 2017 — 2018 — 2019 — 2020 — 2021

STAFF 20%

Progress
- Growth in educational technical team improved service levels significantly
- Technology Integration Specialists centralized under Technology Department
- 2 Jr. System Administrators hired increasing the team from 9 team members to 11

Opportunities
- Tech support, integration, and web support growth needed to support educational goals

Hire 3 Technology Integration Specialists
- Mentor/coach/training goals across the district especially in primaries
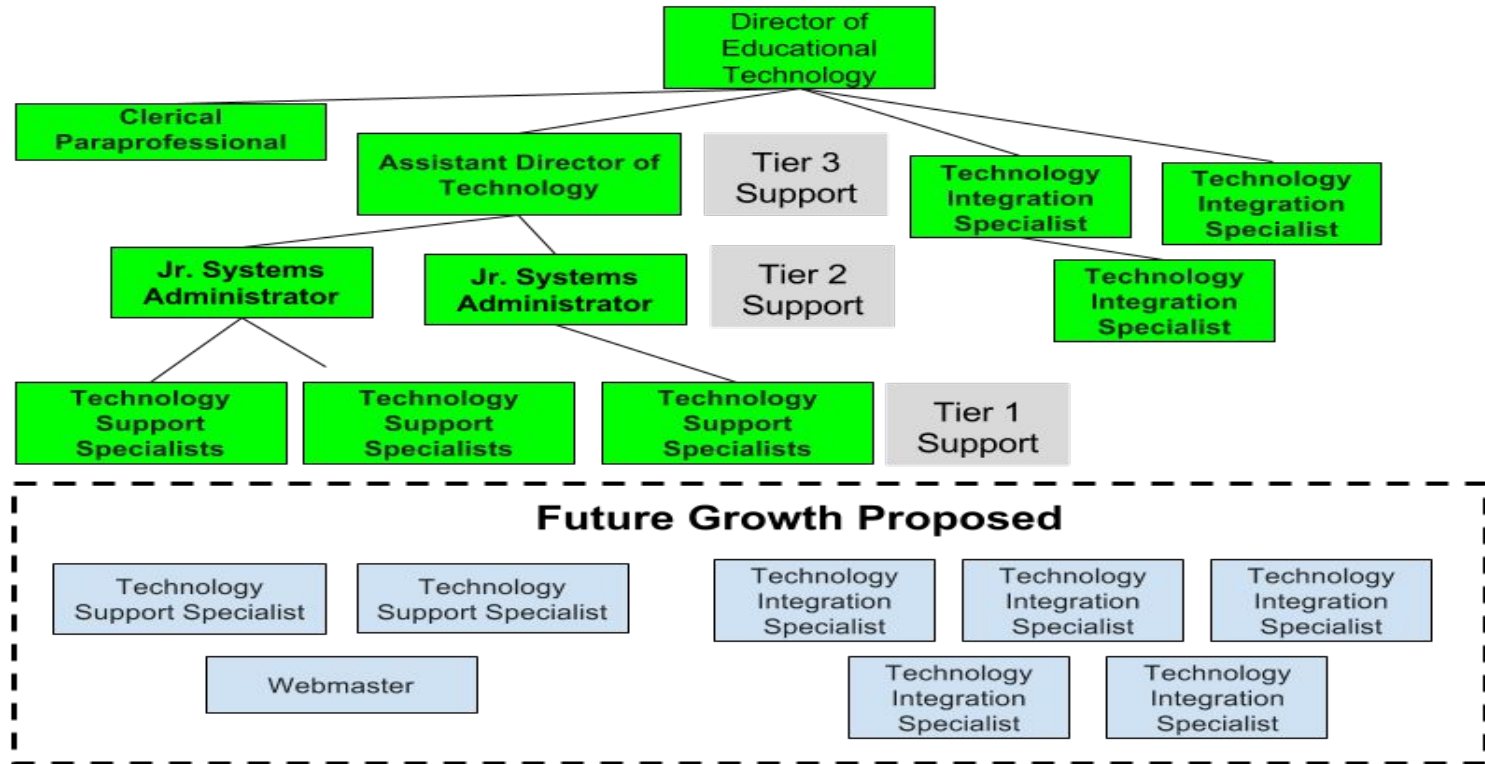
Hire 2 Technical Support Specialists
- Technical break/fix support will improve service levels as 21st century tools and usage increase
- Free up integration staff to more effectively mentor and train staff

Hire 1 Webmaster
- Maintain and upgrade district website

Organizational Structure

Network Infrastructure

2016   2018   2020   2021

              2017   2019

INFRASTRUCTURE 80%

Progress

- Smart deals yielded exceptional discounts on purchases
- Wireless coverage 95%
- Internet Bandwidth increased from 1GB to 3GB
- Network backbone upgrade (10GB Fiber and switches)
- Data center Upgrade (virtual servers and storage environment)
- Cloud Initiatives - Migration of Email services to Google will reduce long term infrastructure costs
- Backup system implemented
- Network backbone upgrades (Routers, Switches, and filtering appliances)

Opportunities

- Internet bandwidth increases every year to support growing device fleet (6GB by 2020)
- Disaster recovery systems implementation
- Security camera network

Infrastructure

We will unify our security strategy on the Smoothwall platform to keep WPS safe for years to come.

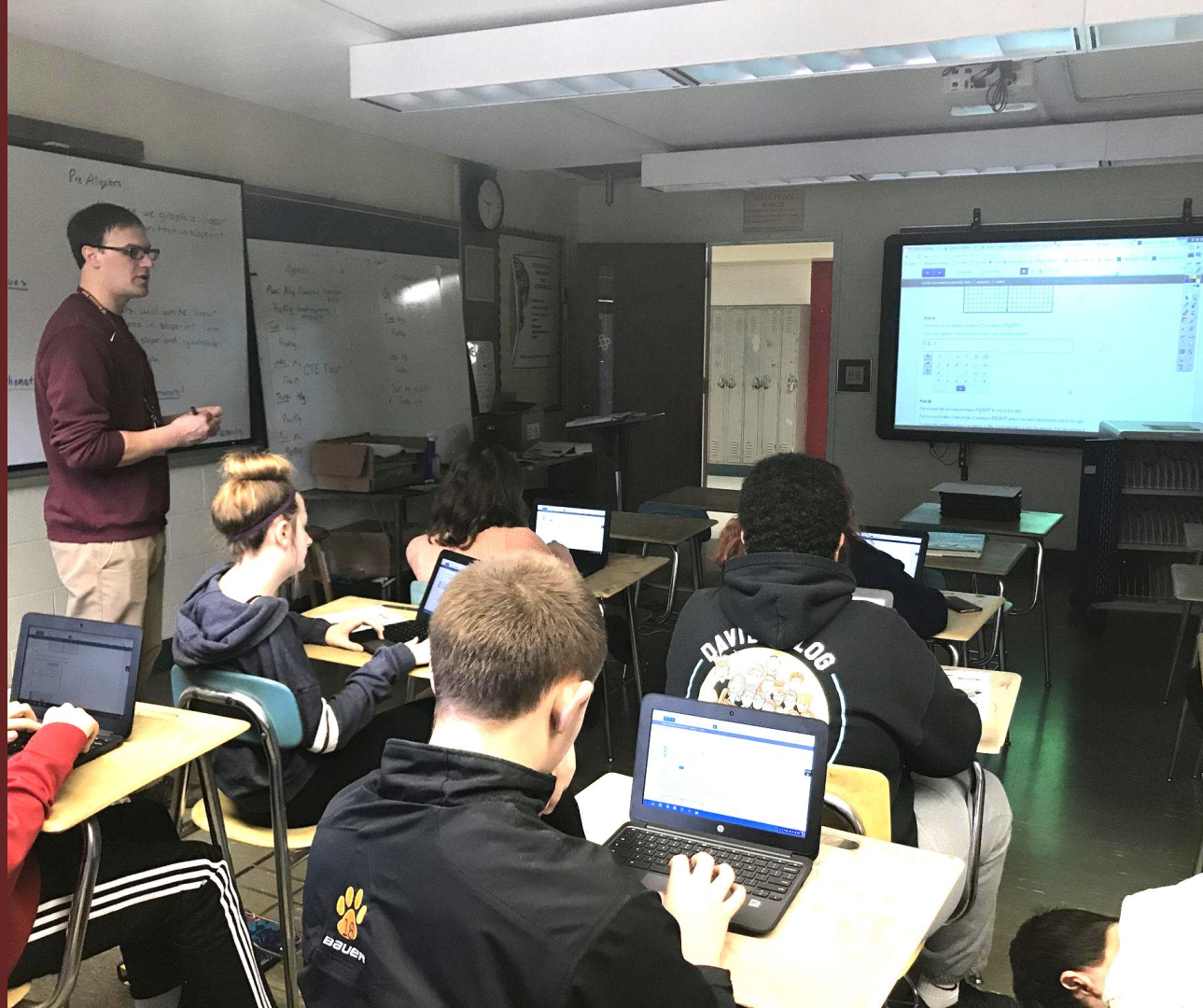
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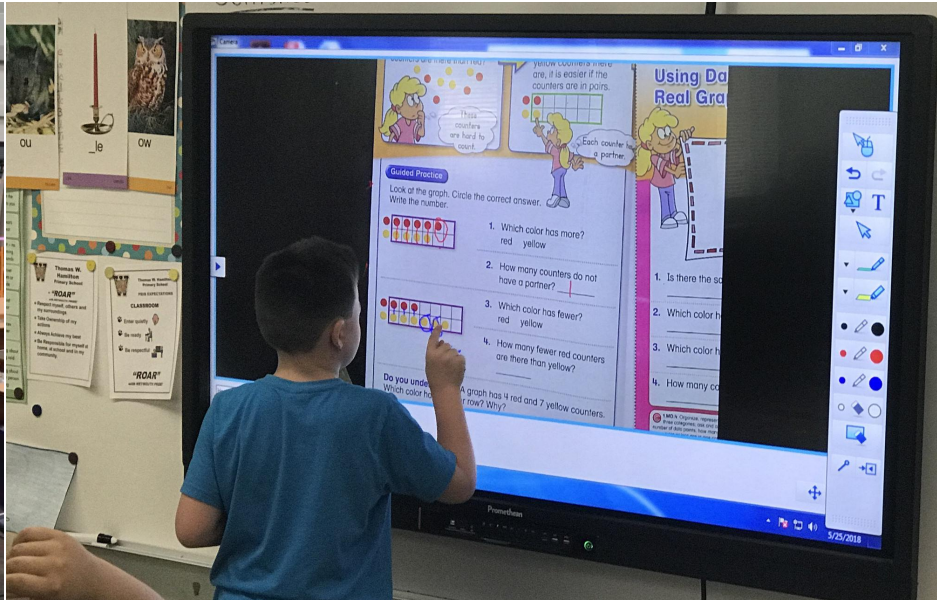
- Reliable Wifi in every classroom across the district

Cloud

Progress on infrastructure has allowed us to move forward on cloud initiatives

Device Initiatives
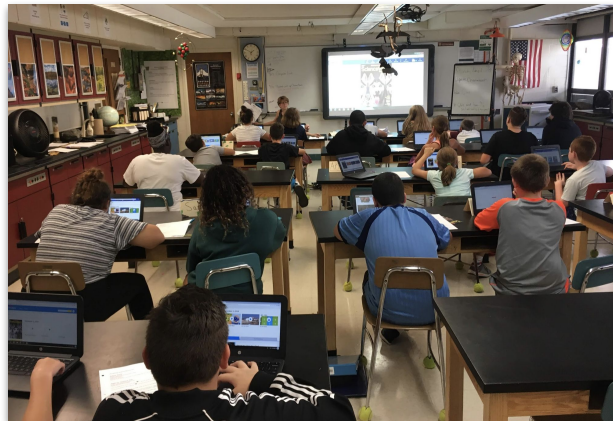

Chromebook 1:1 and LCD Display

Weymouth Proud!
This is how we R.O.A.R.!

Why we lease

Leasing devices would enable WPS to achieve educational goals faster

- 3 Year Lease provides device refresh every 3 years for minimal maintenance
- Chromebooks have a 3 year useful life per industry standard

Acquisition	Number of devices	2018-2019
Leasing	1900 Chromebooks and 550 iPads	$244,000
Purchasing	858 Chromebooks and 0 iPads	$244,000

Long term Chromebook 1:1 initiative

- 1:1 for Grades 7 - 12 by 2020
- $277,842/year to support 3 concurrent leases from 2020 forward

3 YR Device leasing	2018-2019 (1:1 Grades 7 and 10)	2019-2020 (1:1 Grades 7,8,10,11)	2020-2021 (1:1 Grades 7-12)
Grade 7 and 10	$92,614	$92,614	$92,614
Grade 7 and 10		$92,614	$92,614
Grade 7 and 10			$92,614
Total	$92,614	$185, 228	$277,842

Proposed Device Leasing Plan

Lease Groups (Year of Graduation)	Devices	2018-2019 (1:1 Grades 7 and 10)	2019-2020 (1:1 Grades 7,8,10,11)	2020-2021 (1:1 Grades PreK-12)
Grade 7 (2024) and 10 (2021)	1000 Chromebooks	$92,614	$92,614	$92,614
Grade 7 (2025) and 10 (2022)	1000 Chromebooks		$92,614	$92,614
Grade 7 (2026) and 10 (2023)	1000 Chromebooks			$92,614
3-12 Teacher 1:1	500 Chromebooks	$46,458	$46,458	$46,458
PK-2 Teacher 1:1	100 iPads	$12,384	$12,384	$12,384
Refresh Grade 3-6 (1900 total)	400 Chromebooks	$37,221	$37,221	$37,221
	750 Chromebooks		$69,536	$69,536
	750 Chromebooks			$69,536
iPad refresh PreK to 2 (1:2) (750 total)	450 iPads	$55,731	$55,731	$55,731
	150 iPads		$18,577	$18,577
	150 iPads			$18,577
Interactive Displays	120 panels		$68,165	$68, 165
	120 panels			$68,165
Total	6,490	$244,408	$493,300	$742, 193

Computer lab upgrades

- All WHS teaching labs
- [High school lab proposal](#)
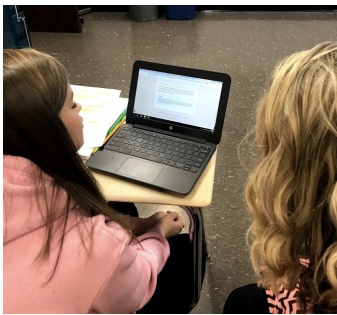- Retire shared labs across the district

Promethean Displays

We are updating our fleet of projectors to interactive LCD displays which have many advantages over projectors

- Twice the lifespan
- Lower total cost of Ownership
- No bulb to replace
- Brighter
- Higher resolution
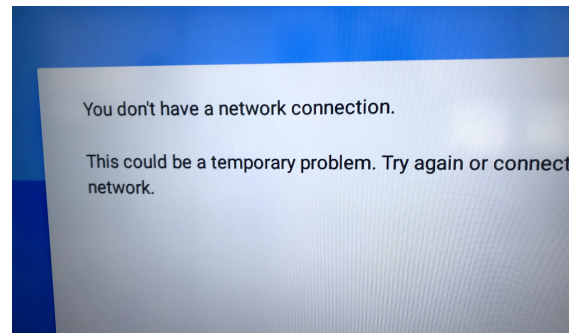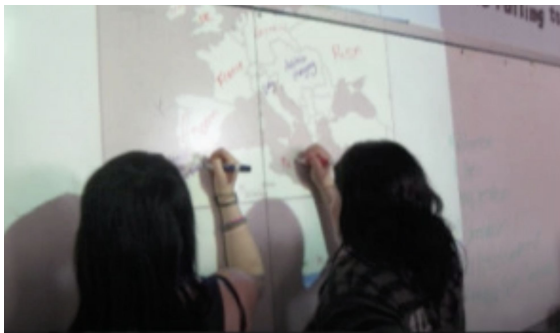- Reliable finger touch interactivity
- Whiteboarding App
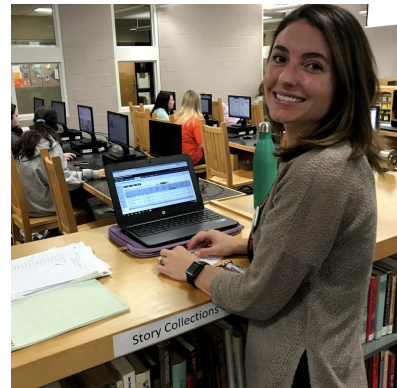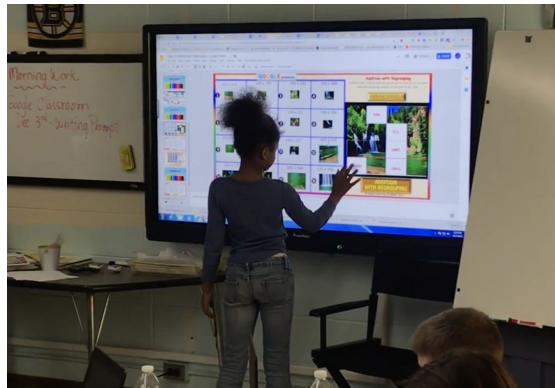
Technology Integration

- **Synthesize all the areas of teaching and learning with technology:** *curriculum, instruction, software, teacher workflow, feedback, assessmen*t, **accessibility.**
- **3 specialists provide trainings, PD support, tutorials, lesson planning, classroom support, assessment/MCAS support, PLC with integration specialists from other districts in our region**
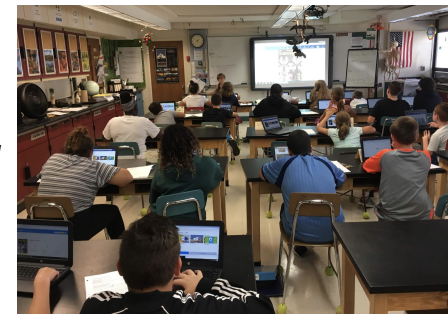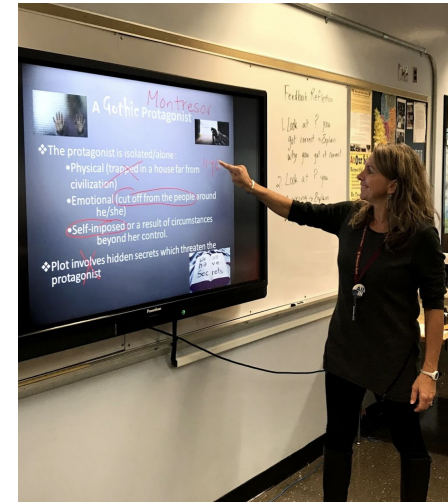
Two years ago

This year

Questions?