



# Oyster Bay East-Norwich Instructional Technology Update

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# Vision:

At Oyster Bay-East Norwich, teachers and students are encouraged to find and incorporate the most beneficial technologies available to enhance instruction. While preparing all students with the skills to succeed in a rapidly evolving society, technology is optimally used in every classroom to engage, excite, and personalize student learning. Diverse technological tools and programs are available throughout the district to redefine opportunities for meaningful individual and collaborative learning both within the classroom and throughout the learning community.

# Cybersecurity Update (12/17/19):

## PHISHING

90% of detected attacks start with emails that trick users into revealing personal information or clicking on links that install harmful software.

## "SPEAR" PHISHING

## DDoS

A distributed denial of service (**DDoS**) attack occurs when multiple systems flood the bandwidth or resources of the district servers.

## BREACH

The release of secure confidential information.

## RANSOM -WARE

Malicious attack that encrypts district data with malware and requires a ransom to access. Software is often installed using credentials gained via targeted/spear phishing.

# Cybersecurity :

## VULNERABILITY MANAGEMENT



Patch known vulnerabilities on all systems, but in particular those systems that house sensitive data.

## SYSTEM BACKUPS



Ensure backups for critical systems are in place and audit backups for completion and functionality.

## SYSTEM HARDENING



Ensure anti-virus is installed and up-to-date, enable firewalls, close unnecessary ports, and disable non-essential services.

## IDENTITY MANAGEMENT



Ensure accounts have appropriate permission levels. Domain Admin accounts should never be used to access workstations.

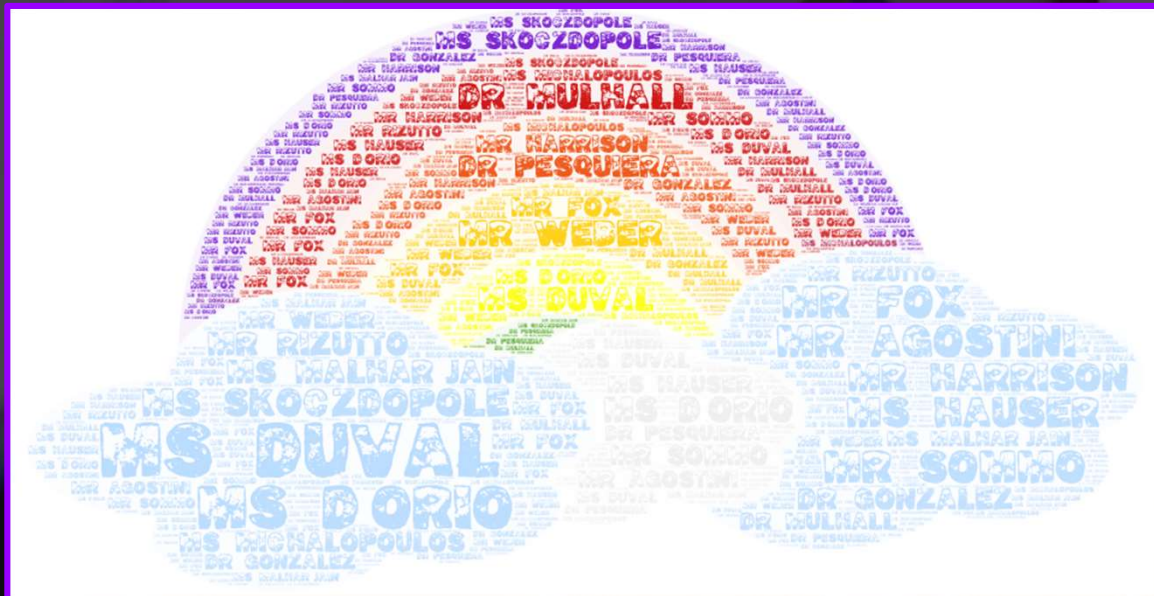
## APPLICATION SECURITY



Only use district approved softwares, audit system access, and isolate critical infrastructure.

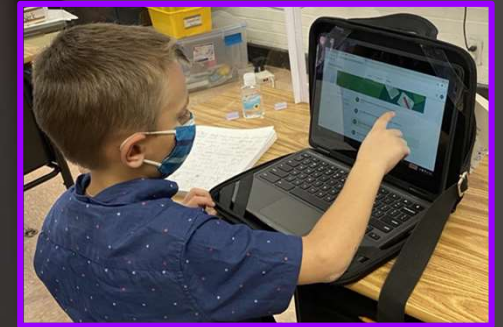
# Technology Advisory Committee

- Phase 1 (2013-2016) Building Culture & Infrastructure
- Phase 2 (2015-2017) Innovation & Personalized Learning
- Phase 3 (2018-2020) Grade-Wide 1:1 Initiatives

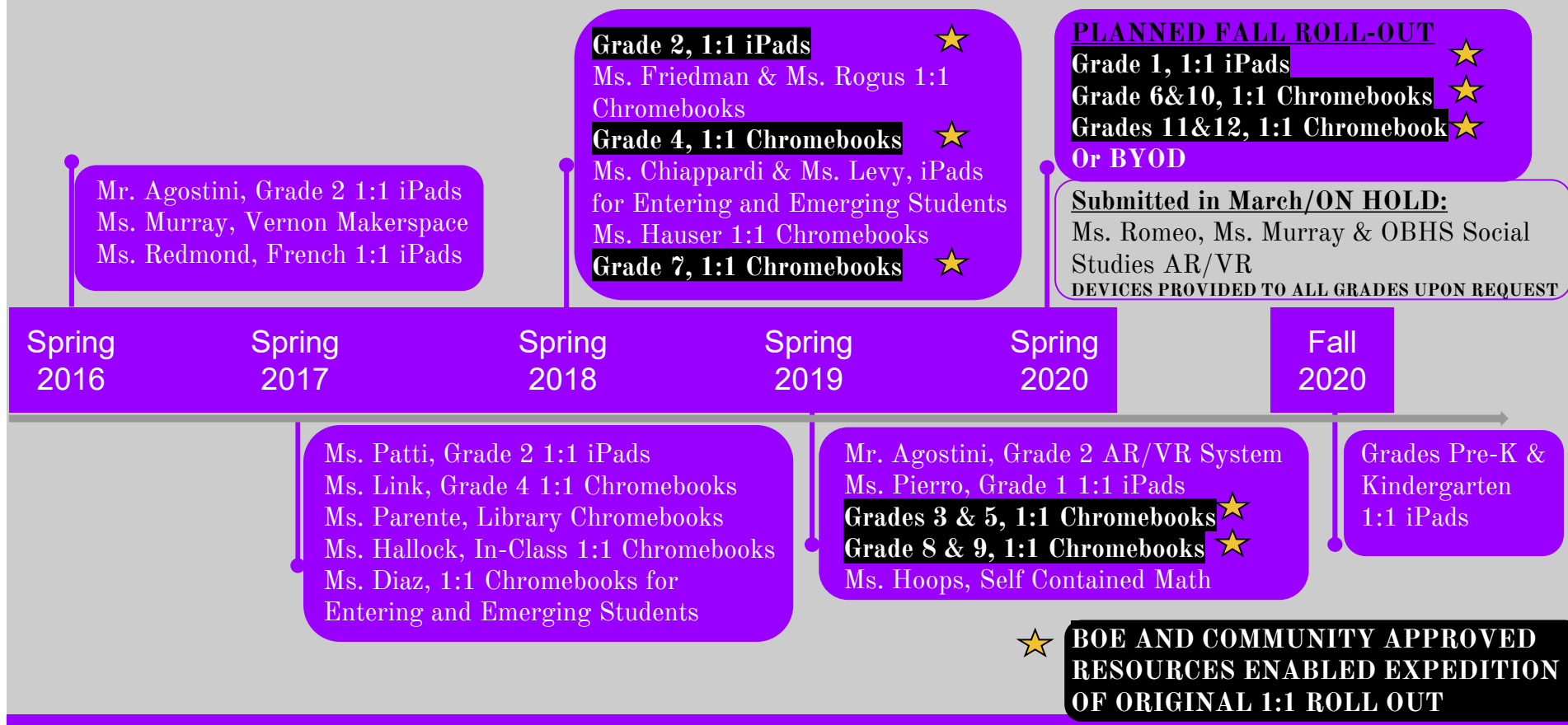


# Infrastructure

- District-Wide Wireless Cabling Cat 6a (Capital Project, 2015)
- Uninterrupted Power Supplies, Switches, & Servers (Smart Bond, 2016)
- Closet Clean-up and Wireless Access Upgrade (e-Rate, 2021)



# Internal Innovation Grants & 1:1 Initiatives



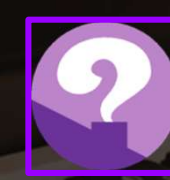
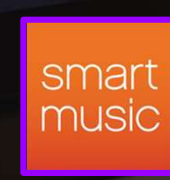
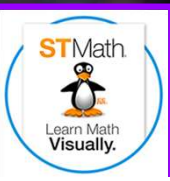
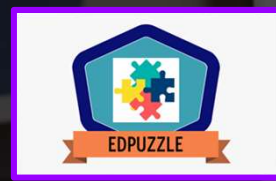
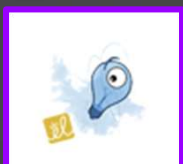
# 1:1 Device Access for All:

- Grades 3-12 Chromebooks
- Grades Pre-K-Grade 2 iPads



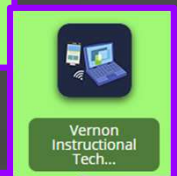


# Software:



# Professional Development:

- District-Wide (ex: Zoom, Data Privacy & Security Awareness Training)
- Departmental and Cohort-Based Training to Prepare for 1:1 Initiatives
- “Tech Camp”
- Model Schools Technology-Specific “Sessions”
- Summer In-Service Course (Canvas & Digital Engagement)
- Individual Coaching/Sign-Up



# Learning Redefined:



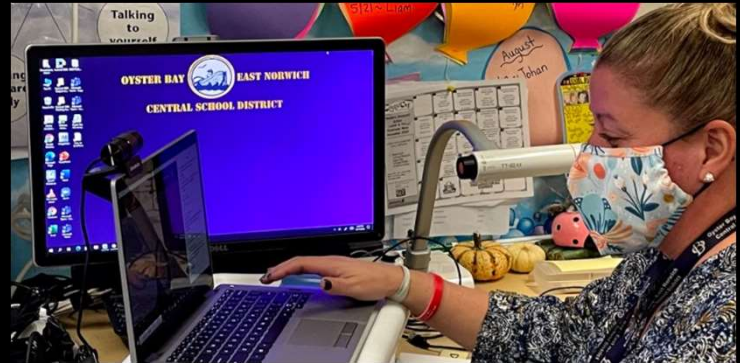
Learning, Device and Content Management	THEODORE ROOSEVELT ELEMENTARY	JAMES H. VERNON ELEMENTARY	OYSTER BAY HIGH SCHOOL
Learning Management	Seesaw	Google Classroom	Google Classroom & Canvas
Device Management	Meraki	Google Admin	Google Admin
Content Filtering	Linewize	GoGuardian	GoGuardian



# Learning Redefined:



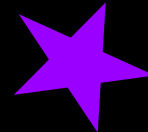
# Fine Tuning Technology to Personalize Learning



- Software Limitations
  - Engagement and Student Voice
  - Empowering Students
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# THANK YOU!



TEACHERS  
STUDENTS  
PARENTS  
STAFF  
ADMINISTRATION  
BOE  
COMMUNITY