



# Online and In Hand

A Great Neck Public Schools

Instructional Technology Update

January 11, 2018 Board of Education Meeting

Marc Epstein, *GNPS District Technology Director*



# Tonight's Program

**GNPS Technology Overview**



**GNPS Social Media with Facebook**



**Redesigning the GNPS Web Site**



**GNPS 1:1 iPad Initiative**



**Questions and Answers**



# GNPS Technology Overview



- **Instructional Technology Mission (Since 1994)**
  - To enhance and support instruction and learning by integrating information and communications technology into the curriculum.

# GNPS Technology Overview

## Hardware

### Desktop Computers



### Mobile Devices



### Presentation Systems



### Printers/Copiers/3D Printers



### Phone and E-911 Systems



### Security Systems



### Shared Technologies



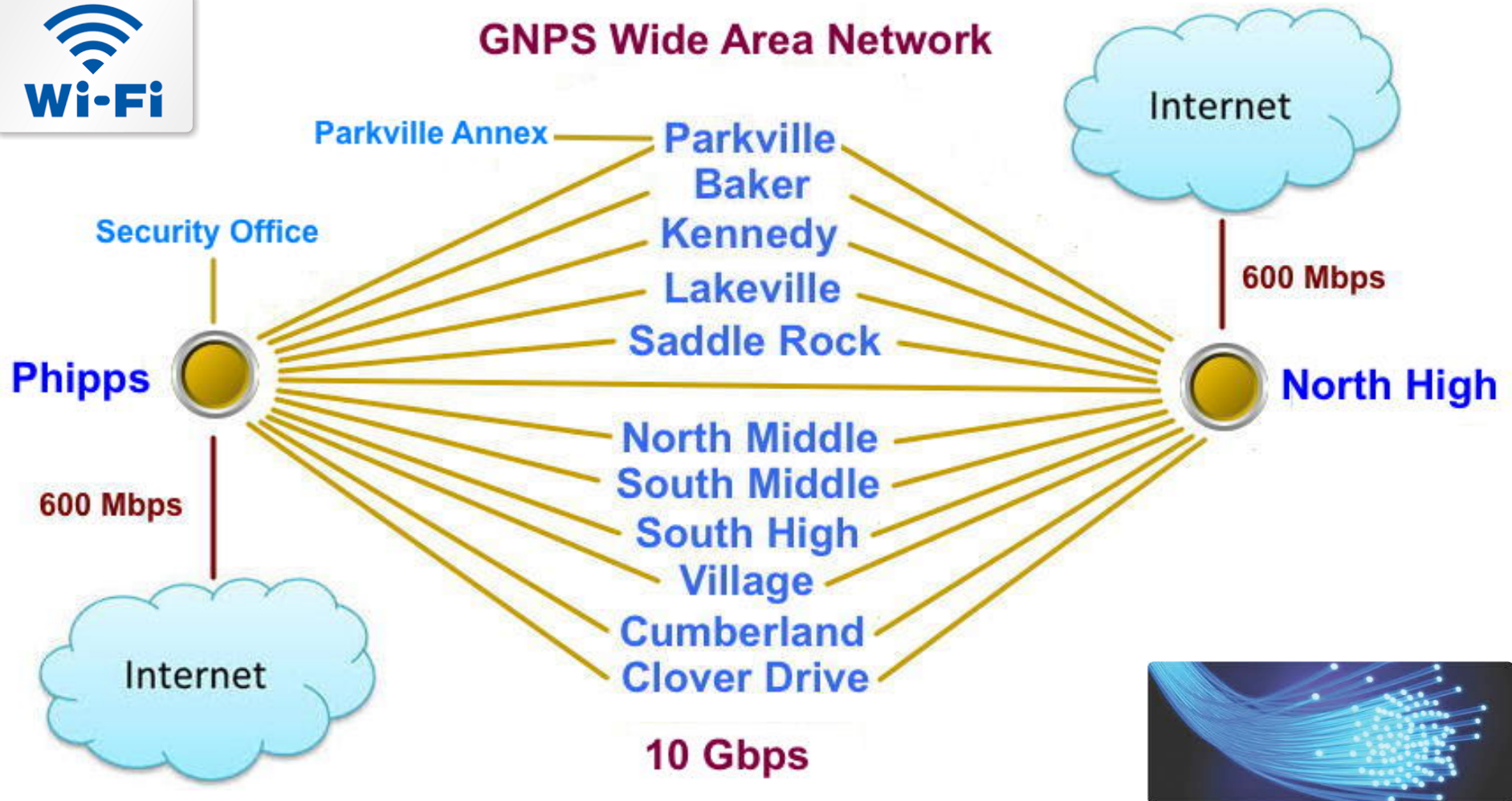


# GNPS Technology Overview

## Networking, WiFi and the Internet



### GNPS Wide Area Network



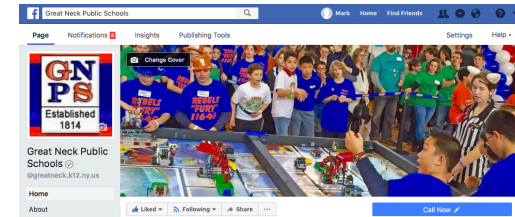
# GNPS Technology Overview

## ● Communication Systems

### ● GNPS Electronic Signs



### ● GNPS Social Media



### ● GNPS Notification System



### ● GNPS Television



### ● GNPS Parent Portal



### ● GNPS Web Site



# GNPS Technology Overview

## Instructional Systems

## Staff Development

**MyLearningPlan**  
Plan » Manage » Learn » Evaluate

## College Planning



## Library Catalog



## Student System



## Compliance Training



## Mobile Devices



## Sub Service



## Electronic Mail



## Network Services



## Special Education



## Financial Management



## Parent Conferences



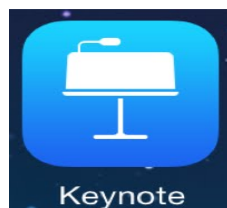
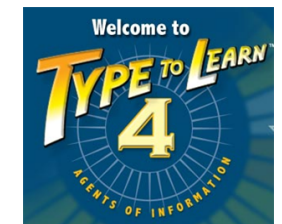
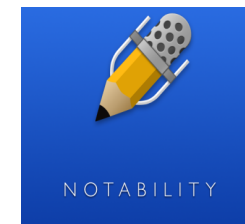
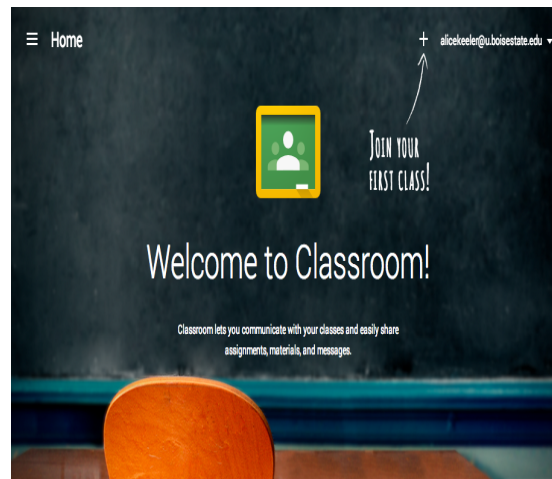
## Video Streaming





# GNPS Technology Overview

## ● Educational Resources





# GNPS Technology Overview

## ● PreK-12 Instructional Technology Program

### ● Grades PreK-12

- Integrated Approach
- Computer Skills
- Technology Applications
- STEAM Activities
- Digital Citizenship

### ● Grades PreK-2

- Required Modular Schedule

### ● Grades 3-5:

- Required Weekly Schedule

### ● Grades 6-8

- Required Technology Education Classes

### ● Grade 9

- Required Technology Orientation Class

### ● Grades 9-12 Electives

- Programming Sequence (AP), Computer Applications, Video Editing, Web Design, Multimedia, Digital Photography, Robotics, E-Commerce, Investments, Accounting, Architectural Drawing

### ● Technology Facilities and Equipment

- Computer Instructional Centers and STEAM Labs
- Shared Laptop Carts
- 1:1 iPad Initiative in Grades 3-12 (Begins in Grade 4 at Lakeville)

# GNPS Technology Overview

## ● Technology Staff

### ● Instructional Technology

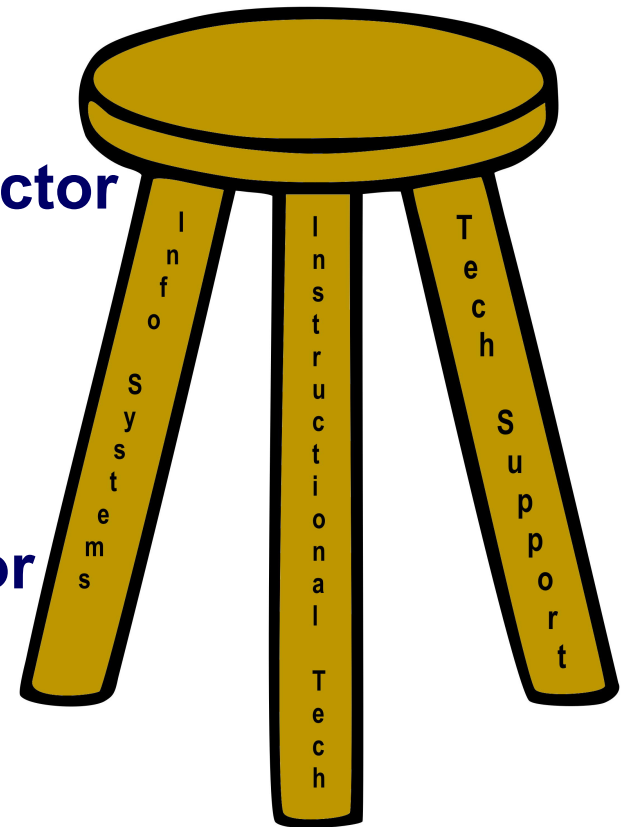
- Marc Epstein, Technology Director
- 1 Tech Staff Developer/School
- 1 Teaching Assistant/School

### ● Technical Support

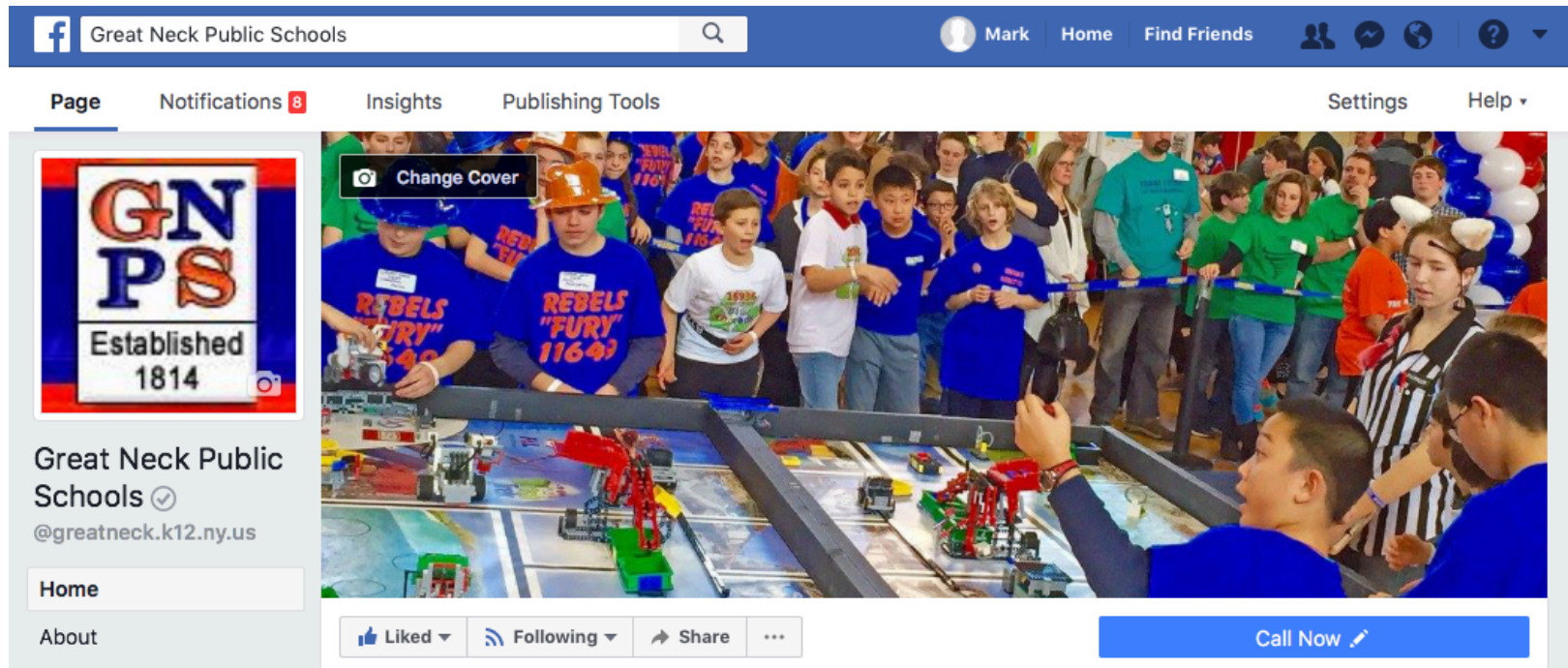
- Joseph Cangialosi, Coordinator
- 5 District-Wide Technicians

### ● Information Systems

- Cathy Davidson and Jason Martin, Coordinators
- 1 Information Technology Aide



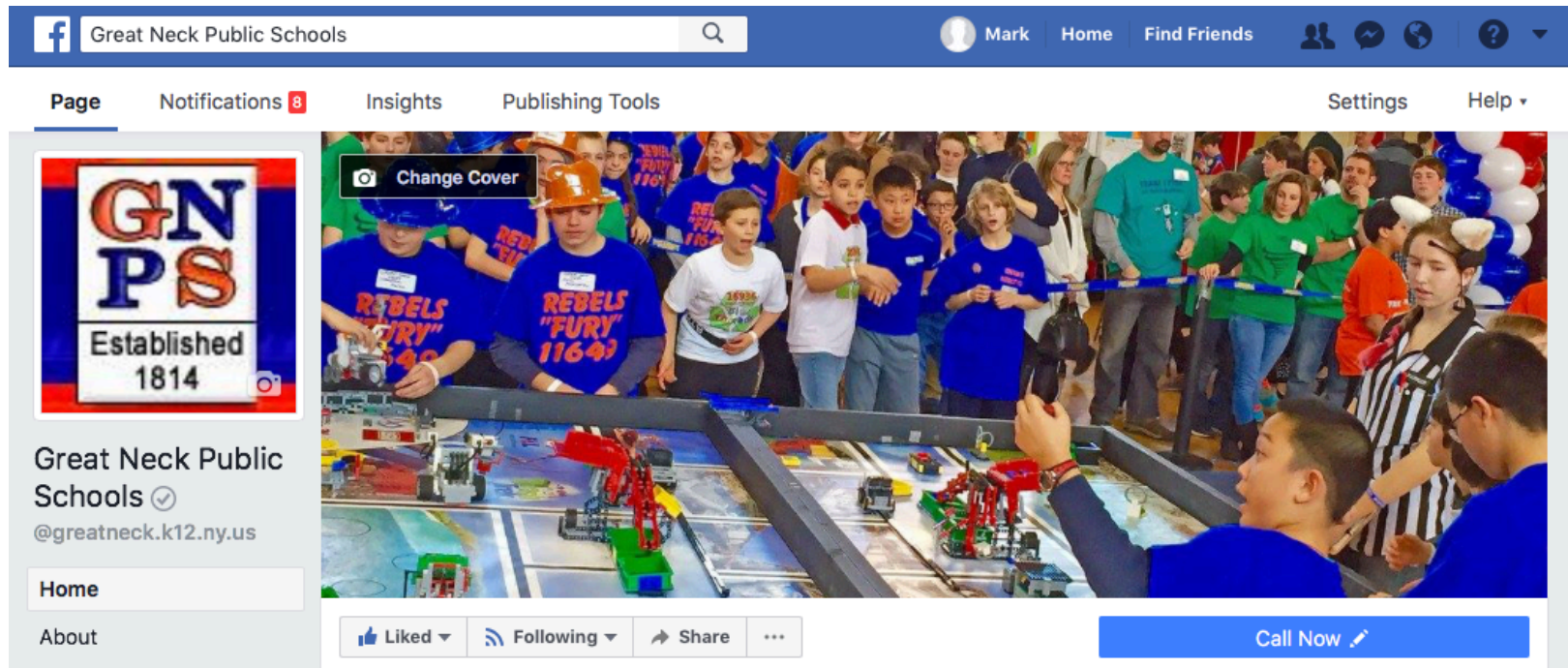
# GNPS Social Media with Facebook



**Sanctioned by Board Policy #4526**  
**Computer Network and Internet Acceptable Use**

**Launched: March 29, 2017**

# GNPS Social Media with Facebook

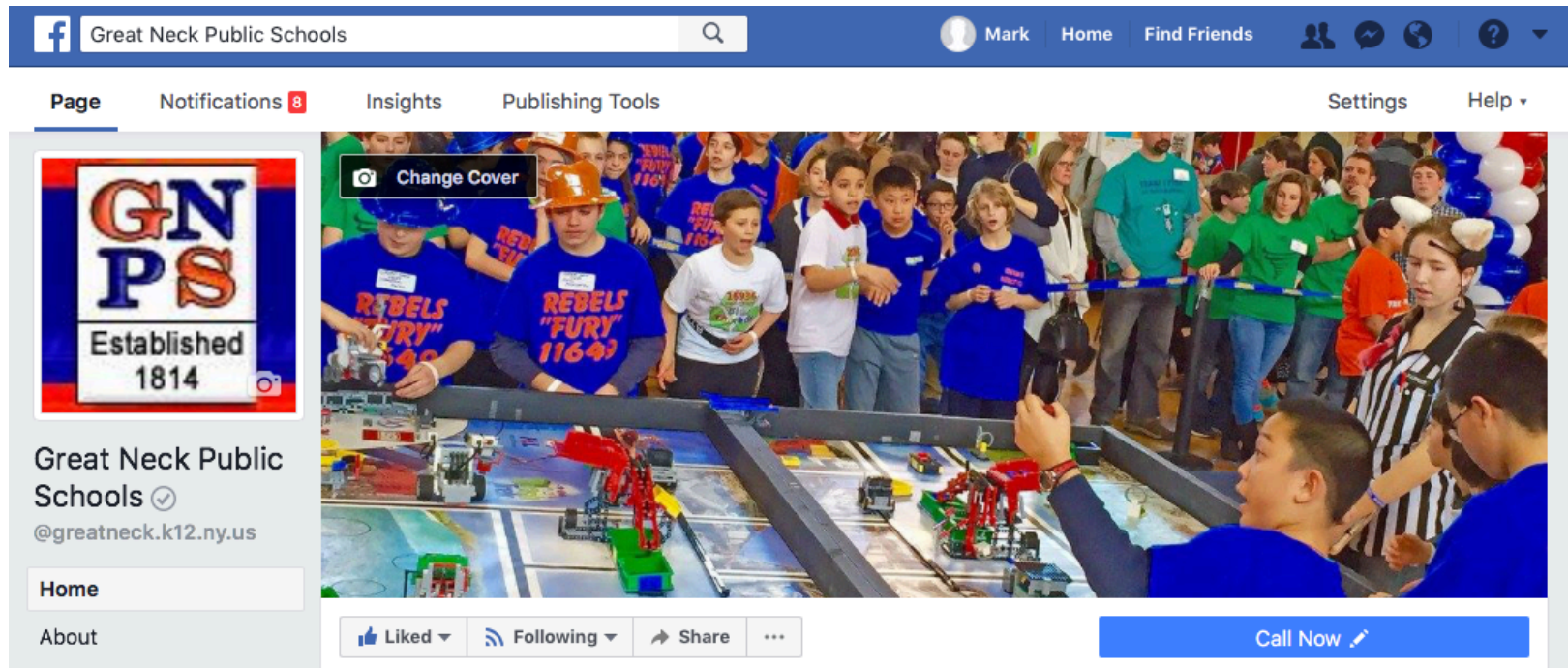


## Purpose of GNPS Social Media

-  To share and promote the activities and accomplishments of our students and staff with the local and global school community.



# GNPS Social Media with Facebook



- **Hashtag: #GNPSEducationalExcellence**
- **1,667 Followers** (as of 1/2/18)
- **Managed by Colleen Bowler, Public Information Office**

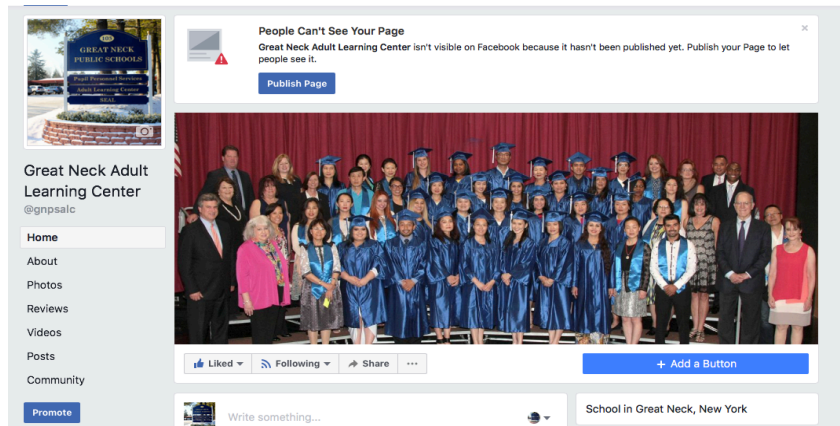
# GNPS Social Media with Facebook

## ● Typical Post

- Message
- Photos
- Likes
- Comments
- Tags
- Shares



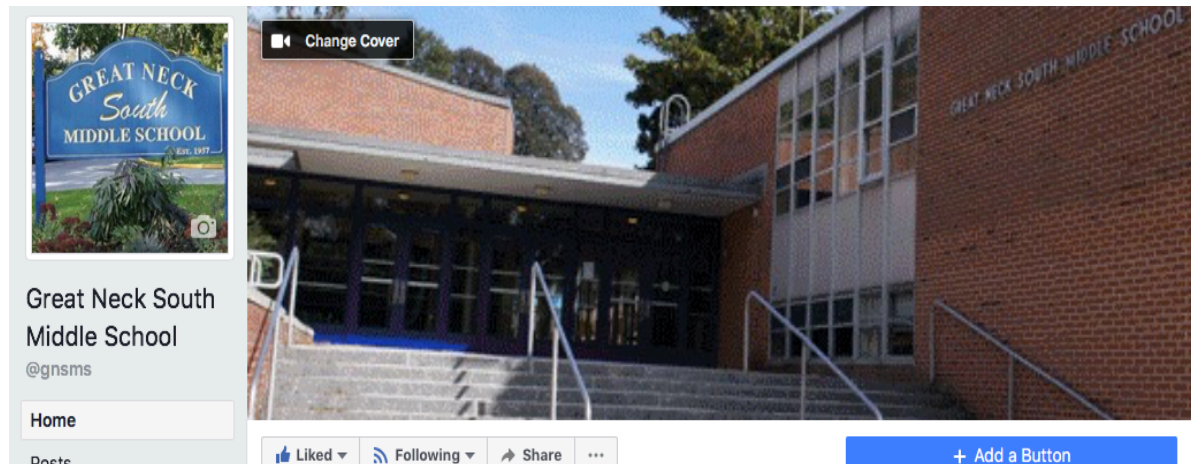
# GNPS Social Media with Facebook



**Adult Learning Center 76 Followers**



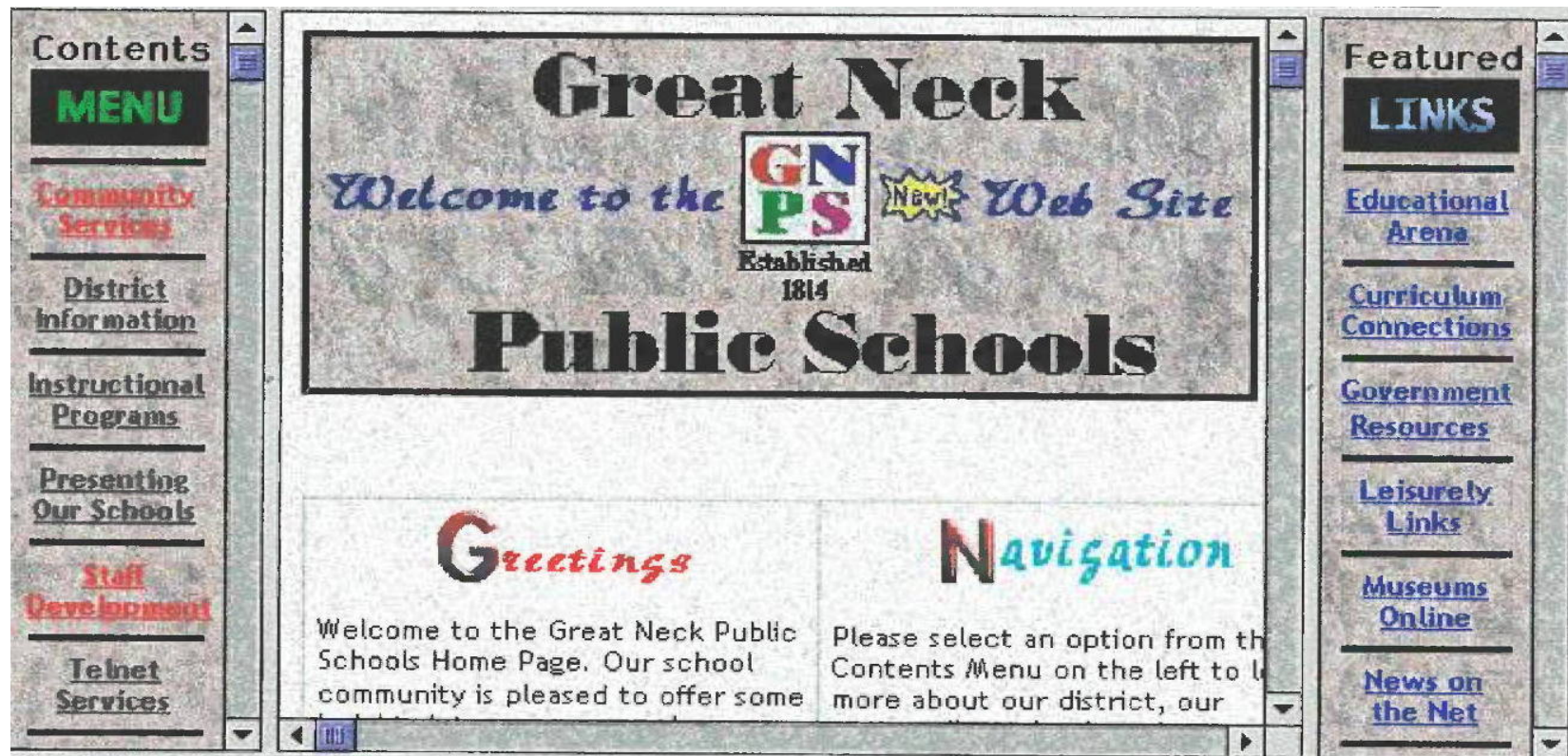
**Community Education 162 Followers**



**South Middle School 256 Followers**



# Redesigning the GNPS Web Site



- Original Web Site

- Launched March 1, 1998



# Redesigning the GNPS Web Site

Click here for employment opportunities

**District Menu**

- About Us
- Administration
- Alumni
- Board of Education
- Contact Us
- Registration
- Services
- GNTA/SAGES
- UPTC/SEPTA/PTA
- Information Menu
- Board Policies
- Budget
- Calendars
- Forms
- History
- Jobs
- News
- Learning Menu**
- Curriculum Links
- Educational Resources
- Professional Development
- Recreation Program
- Report Cards
- Summer School

Good afternoon and enjoy your day.
Today is Tuesday, November 28, 2017 at 1:50:31 PM.

**Celebrating 200 Years**  
GNPS  
Established 1814

Welcome to the  
**Great Neck Public Schools**

Great Neck, New York U.S.A

Superintendent's Message  
District Accolades

Board Meetings  
District News

2017-2018 Calendar  
Lunch Menus and Forms

Technical Support  
Web Site News

50th Anniversary

Search Great Neck Public Schools Only

Google Search

Find us on Facebook

GNPS/TV  
Great Neck Public Schools  
Educational Media

**GNPS Staff Systems**

- AESOP Sub Service
- GCN Training
- IEP Direct
- Infinite Campus
- Library Catalog
- My Learning Plan
- OLAS District Login
- PTCwizard Teacher
- School Dude
- WebMail
- WinCapWeb

**GNPS Parent Systems**

- Campus Parent Portal
- ParentLink Notification
- PTCwizard Parent
- Recreation WebTrac
- Transportation & Maps
- GNPS H.S. Student Systems
- Campus Student Portal
- GNPS Google E-Mail
- North High Naviance
- South High Naviance
- Turnitin

**EFK**  
n E. Kennedy School

**Lakeville School**

**Parkville School**

**Saddle Rock School**

**North Middle School**

**South Middle School**

**North High School**

**South High School**

**Village School**

**Community Ed  
Cumberland Center**

**Adult Learning PPS and SEAL  
Clover Drive Center**

**SEPTA  
Special Education PTA**



**District Announcements**

**Winter Concert I at South High**

South High School's Winter Concert I will be held on Thursday, Dec. 7 at 7:30 p.m., in the school auditorium. This concert will be under the direction of Mr. Michael Schwartz, performing arts department head/instrumental teacher; Mr. Mark Boschen, wind ensemble/instrumental teacher; and Dr. Janine Robinson, vocal music teacher. For further information regarding the concert, please contact Mr. Schwartz at (516) 441-4851 or at mschwartz@greatneck.k12.ny.us. [Read more...](#)

**Improv at South High**

Theatre South's Improv Troupe will perform on Friday, Dec. 8, at 7:30 p.m., at South High School. During the performance, students improvise and create characters and scenes based on ideas from the audience. For tickets, please contact Thomas Marr, drama teacher/director, Theatre South, at (516) 441-4873. Improv Troupe: (front row, from left) Daniella Brancato and Brian Volk, troupe captains; (second row) Sophie

**Latest News**



**Alan Schwartz Named 2017 Educator of Excellence**

The New York State English Council has selected Alan C. Schwartz as a 2017 Educator of Excellence. Mr. Schwartz is the music department head at South Middle School in the Great Neck Public Schools. [Read more...](#)



## Current Site



## 35,827,772 Visits

# Redesigning the GNPS Web Site

## ● Web Site Committee Redesign Priorities

● New Aesthetics

● Clean Look

● Simple Navigation

● Consistency

● ADA Compliance

● Translation

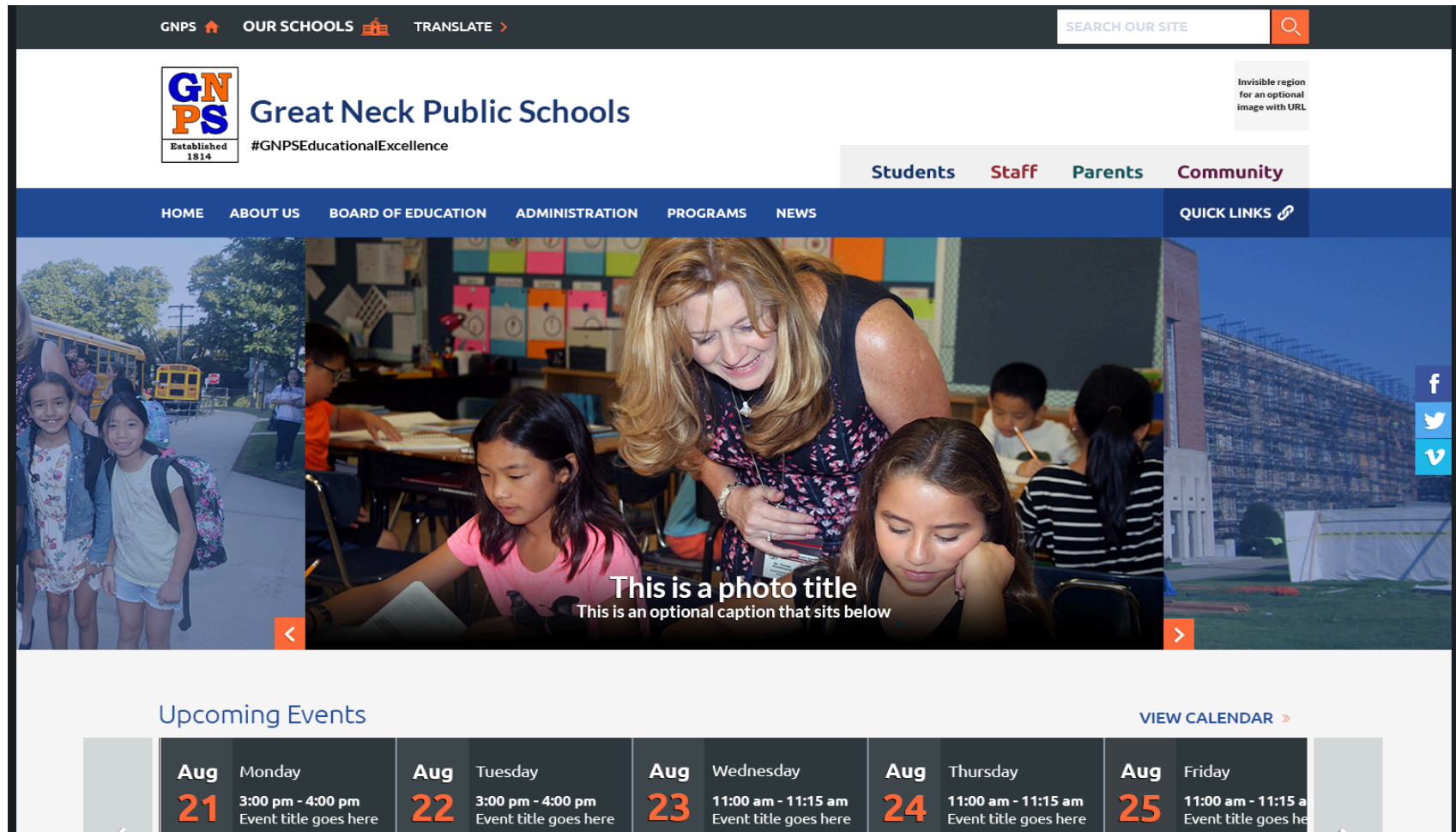
● Responsive Design

● Social Media

● Interactive Calendar

● GNPS Brand

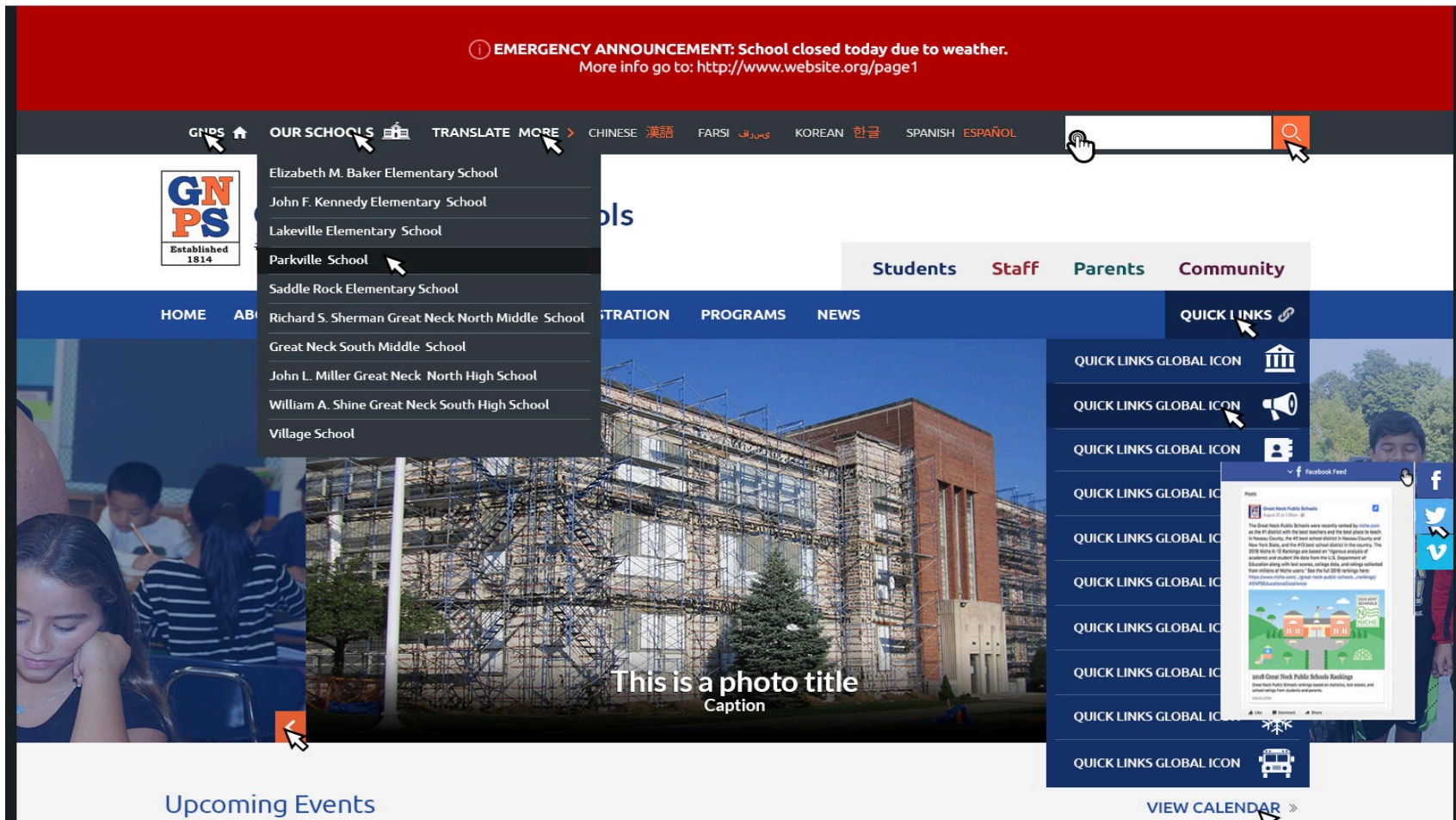
# Redesigning the GNPS Web Site



 **New Custom Template**



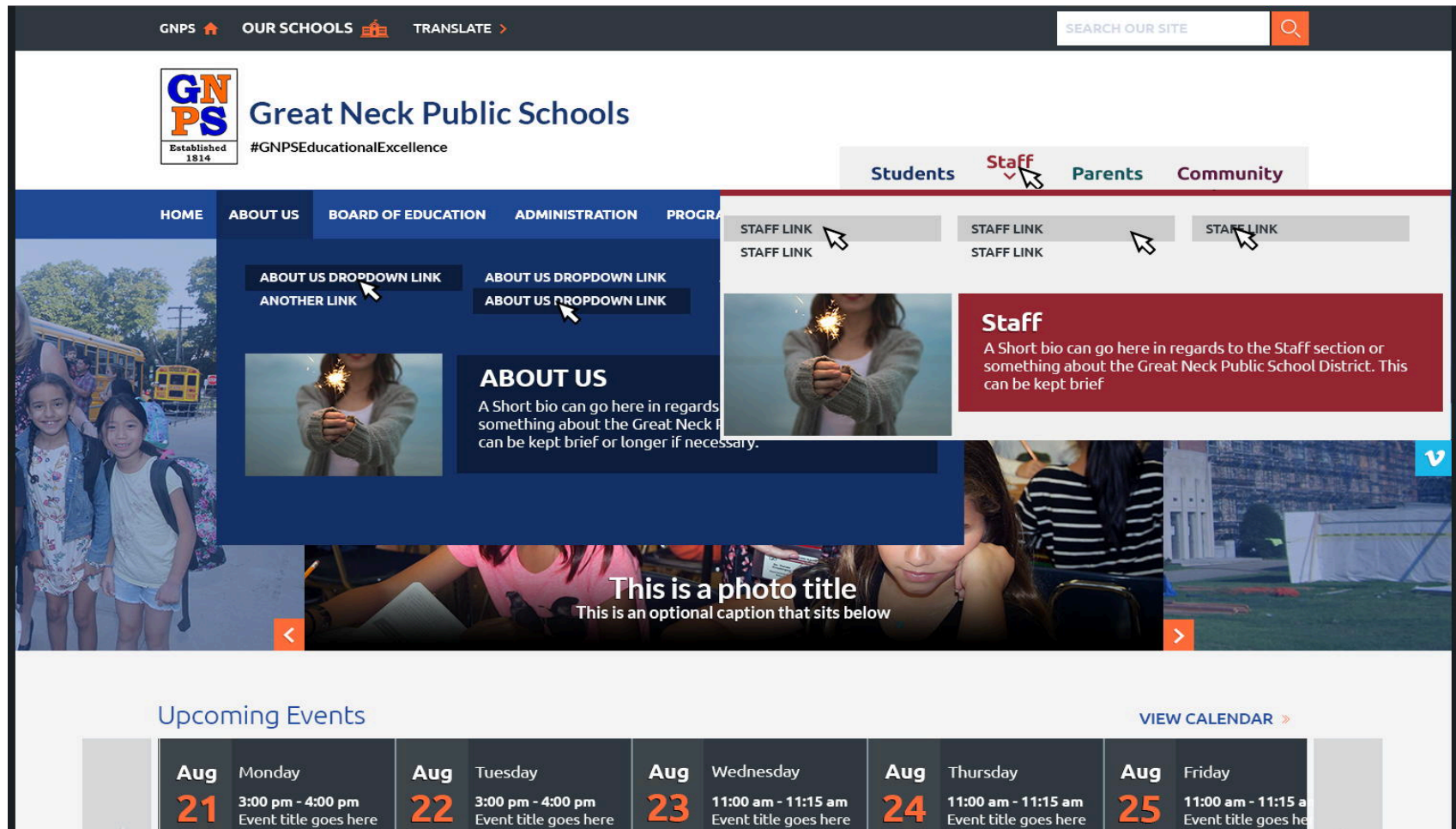
# Redesigning the GNPS Web Site



## Hover Effects and Menu Design

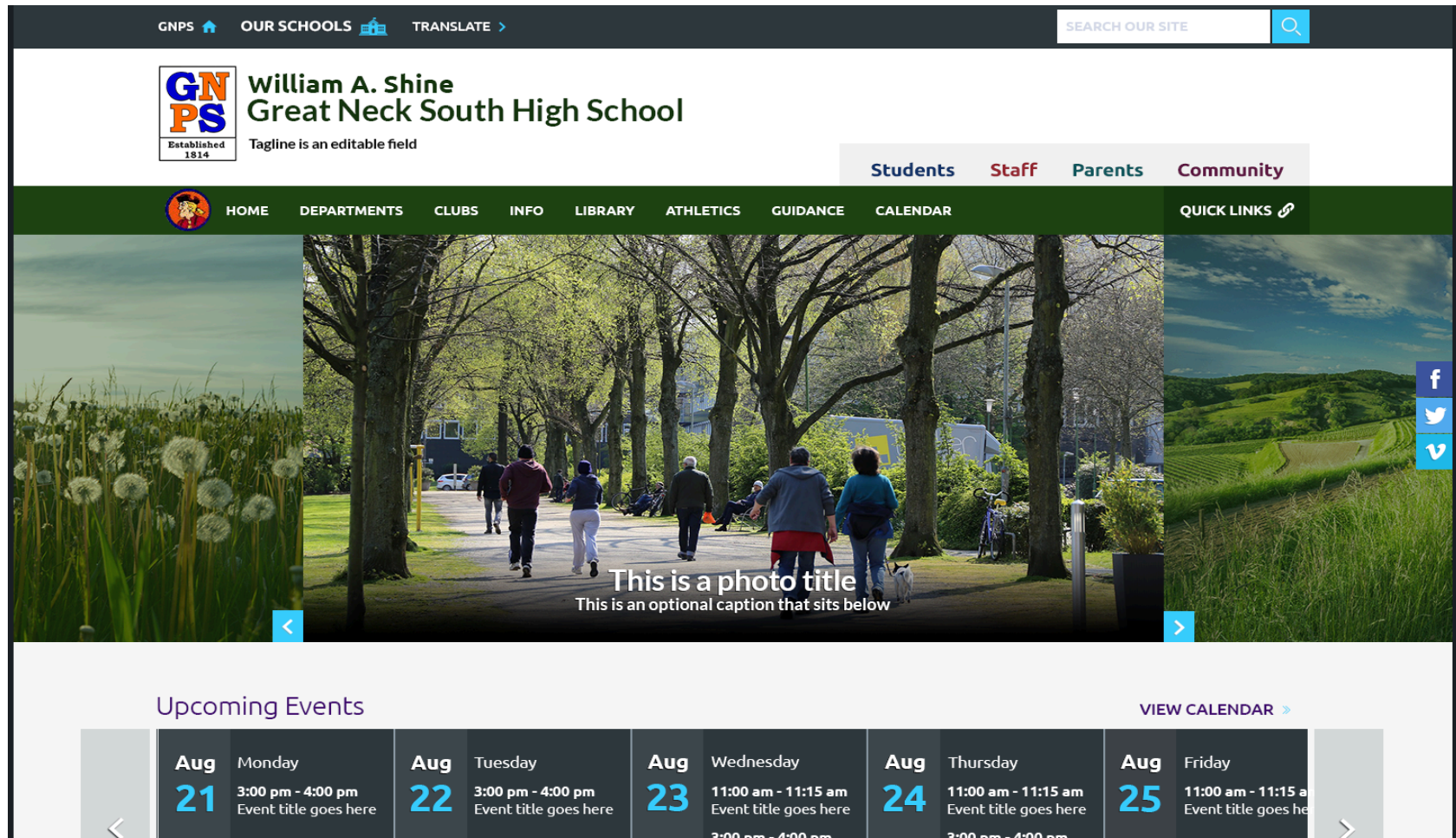


# Redesigning the GNPS Web Site



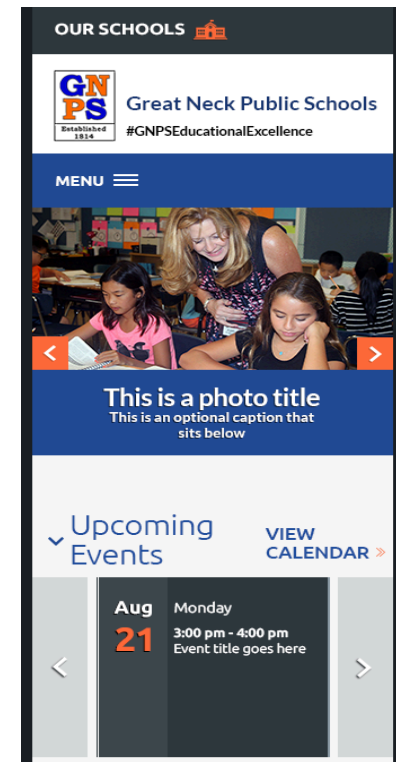
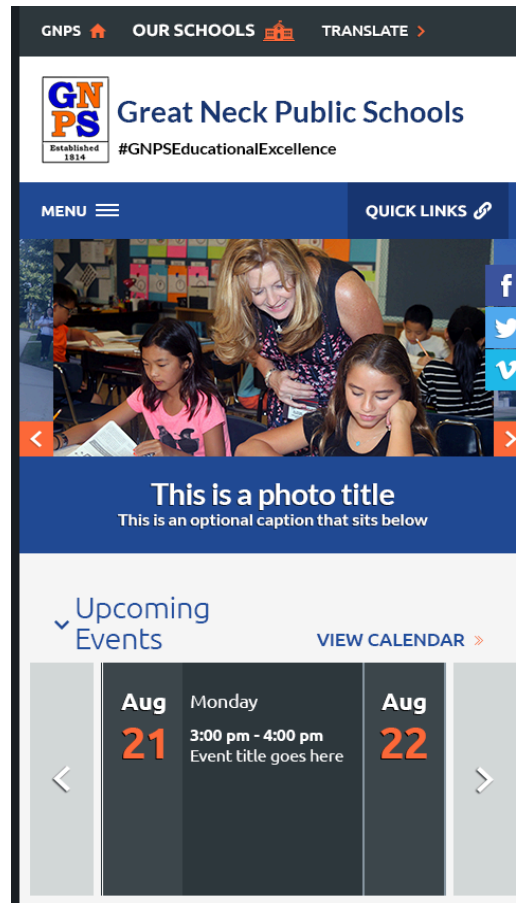
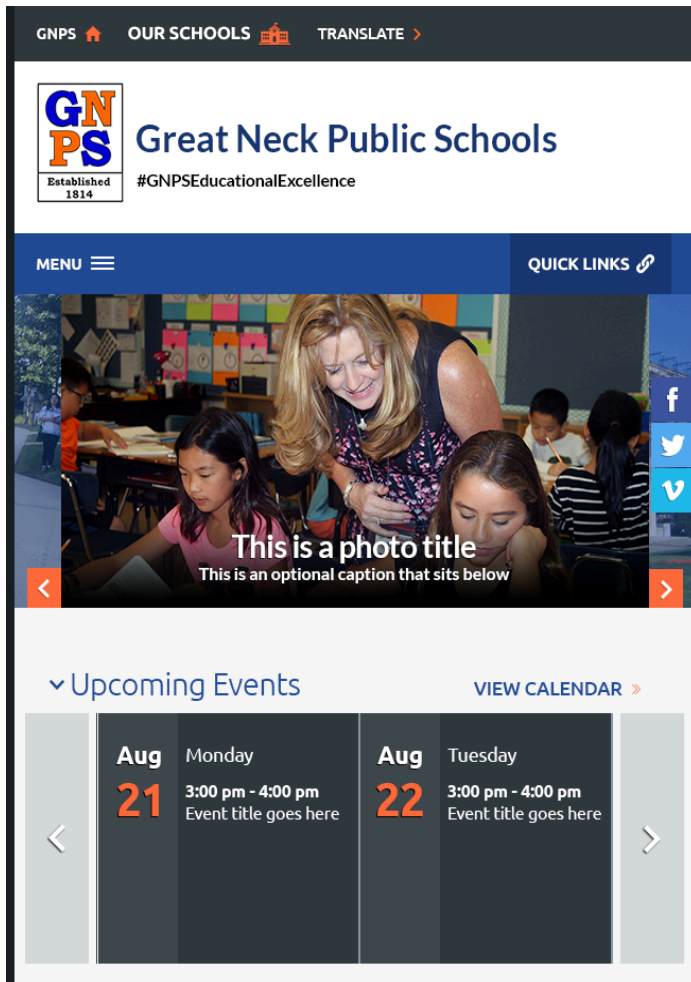
## Channel Bar Mega Menus

# Redesigning the GNPS Web Site



## School Site Color Configurability

# Redesigning the GNPS Web Site



 **Responsive Design For All Devices**



# GNPS 1:1 iPad Initiative

## ● FAQ #1: How did our 1:1 iPad Initiative evolve over the years?



Middle School



# GNPS 1:1 iPad Initiative



We intentionally took an incremental approach which began seven years ago in order to build out our wireless infrastructure, digitize curriculum, update lessons, and train staff.

We began with pilot programs in our middle schools, moved from class sets, to team sets, to entire grade levels, and then expanded vertically to elementary and high schools.

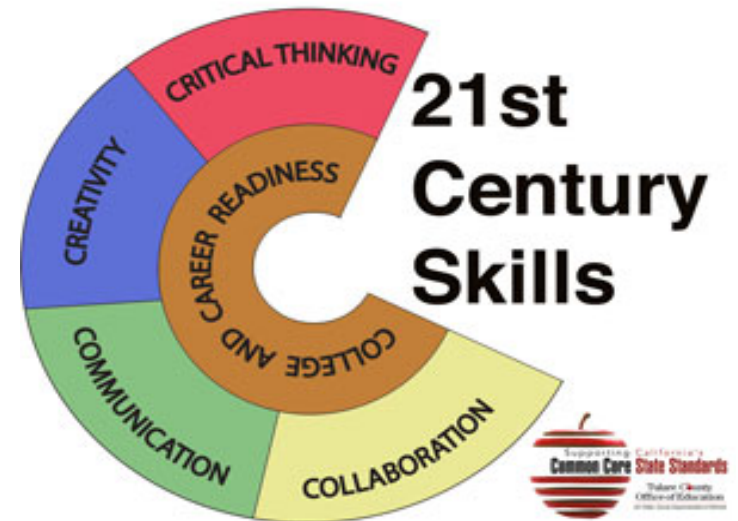
## GNPS 1:1 iPad Initiative

# FAQ #2: What is the rationale for having a 1:1 program in a school district?



High School

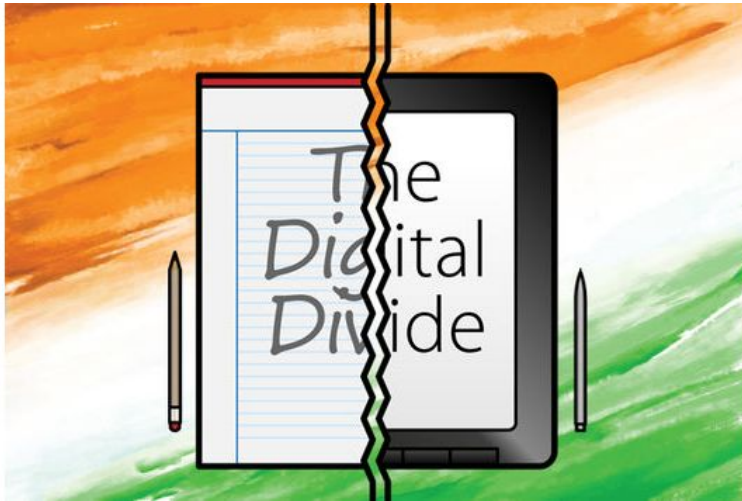
# GNPS 1:1 iPad Initiative



To fulfill our district's mission and educational philosophy, which call for "an innovative and collaborative educational environment" that "constantly searches for methods of improvement."

To provide a modern, electronic educational tool to every learner and instructor in order to increase productivity, improve teaching and learning, and develop 21<sup>st</sup> Century Skills.

# GNPS 1:1 iPad Initiative



To eliminate the digital divide and provide equitable access to information and learning opportunities, regardless of socio-economic class, background, language, or disability.

To implement a digital workflow that is environmentally friendly, saves paper, reduces cost, increases productivity, and supports the curriculum.



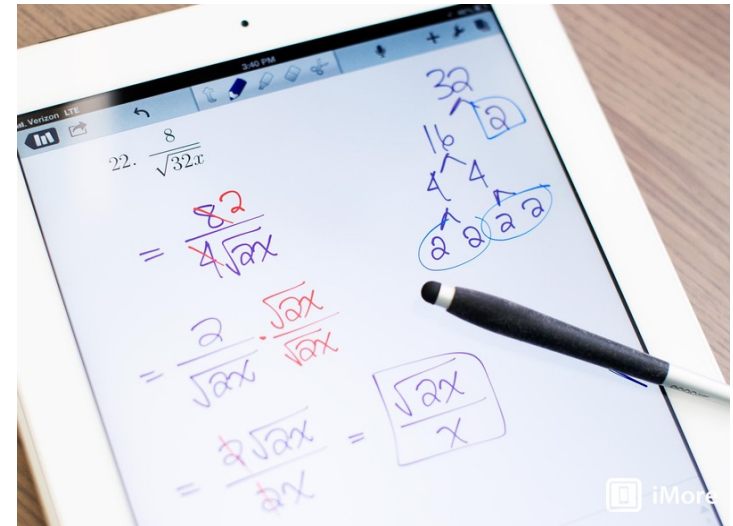
# GNPS 1:1 iPad Initiative

- **FAQ #3:**  
**Why did we choose the iPad as the device for our 1:1 program?**



Elementary School

# GNPS 1:1 iPad Initiative



- Tablet form factor is thin, light, and suited for reading.

- Easy to carry and fits on a desk or in a backpack.

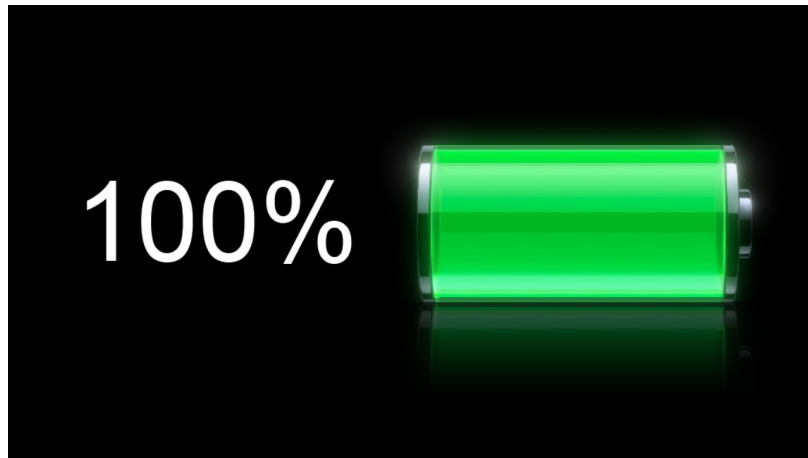
- Inexpensive enough to deploy to many users in large quantities.

- Touch screen interface is easy to use.

- Zoom easily to magnify maps, charts, and art work.

- Write, take notes, do math, diagram, and annotate documents with a stylus.

# GNPS 1:1 iPad Initiative

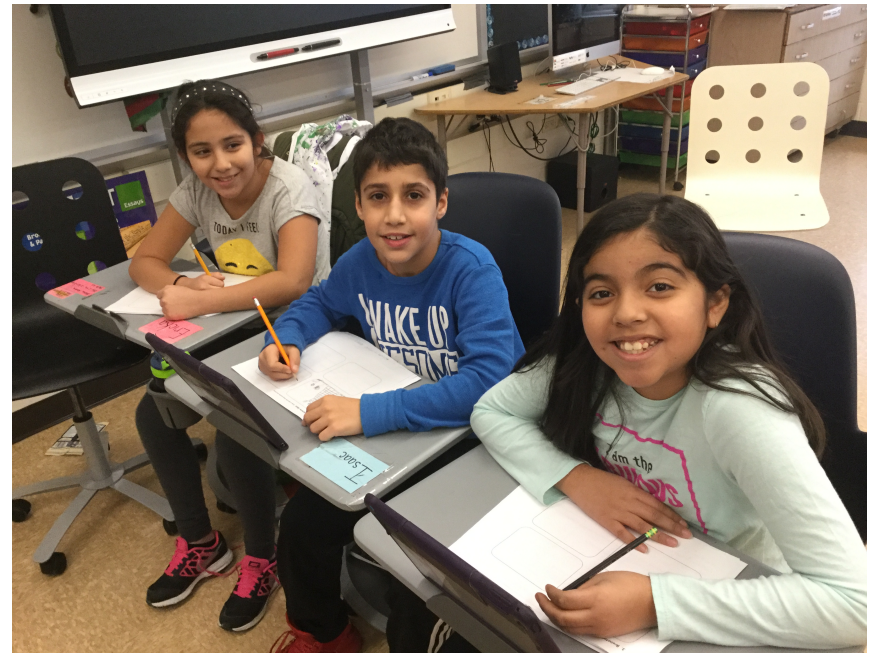


- **Reliable and sustainable wireless Internet device.**
- **Fast start-up and instant wake/sleep functionality.**
- **Long battery life and stays charged for an entire school day.**
- **Robust educational app ecosystem.**
- **50% discounts for volume app purchases.**
- **Front and rear facing cameras enable photo and video projects.**



# GNPS 1:1 iPad Initiative

## ● FAQ #4: What does our 1:1 iPad Initiative cost the school district?



Elementary School

# GNPS 1:1 iPad Initiative



2017-18 iPad Lease Budget:	\$488,612
2017-18 AirWatch MDM Budget:	<u>\$ 64,800</u>
	\$553,412
1:1 iPad Initiative % of GNPS Budget:	0.25%
Average Interest Rate (4 Years):	0.49%
Lease Cost/Student/iPad/Year:	\$74.37
AirWatch MDM Cost/Student/iPad/Year:	<u>\$ 9.00</u>
	\$83.37

# GNPS 1:1 iPad Initiative



## STM Dux Case: \$29

- Drop Protection/Reinforced Corners
- Two-Way Typing and Viewing Stand
- Smart Cover with Transparent Back



## Logitech Keyboard: \$33

- Durable and Spill-Resistant
- Wired Plug and Play Connectivity
- Full-Size Keyboard



<u>iPad Model</u>	<u>Component</u>	<u>Repair Price</u>	<u>50% User Cost</u>
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iPad or Air	Digitizer or LCD	\$60 or \$80	\$30 or \$40
iPad Air 2	Digitizer & LCD	\$140	\$70

- Spare iPads are loaned to students during the repair process.
- Repair rate per year is between 5%-7%.



# GNPS 1:1 iPad Initiative

## Cost Offset – Fewer Computers

**2014-15 School Year:** **-\$ 50,352**

South Middle Computer Lab Room 702; E.M. Baker Grade 5 Classroom Computers

**2015-16 School Year:** **- \$227,346**

E.M. Baker CIC #2; JFK Library Computers; North High Drop-In Lab Room 27; Secondary School TESL Laptop Carts; E.M. Baker, J.F. Kennedy, and Saddle Rock Grade 4 and 5 Classroom Computers; Lakeville Grade 5 Classroom Computers

**2016-17 School Year:** **- \$170,389**

J.F. Kennedy CIC #2; Saddle Rock Library Computers; North Middle Library Laptop Cart North Middle ScanTek Lab Room 137; North High Foreign Language Lab; North High Laptop Carts; E.M. Baker, J.F. Kennedy, and Saddle Rock Grades 3, and 4 Classroom Computers

**2017-18 School Year:** **- \$121,614**

E.M. Baker, J.F. Kennedy, and Saddle Rock Grade 3 Classroom Computers, Lakeville Grade 4 Classroom Computers, Lakeville Library Computers, Parkville Kindergarten Computers, and South Middle Computer Lab Room 806

**Total Computers: - 617**

**Total Cost: - \$569,701**

- **FAQ #5:**  
**What makes our 1:1 iPad Initiative unique as compared to other districts?**



Elementary School

# GNPS 1:1 iPad Initiative



- Other districts visit us because we focus on learning.
- Balance technology, print materials, and manipulatives.
- Standardize on cross-curricular apps.
- Focus on digital organization and workflow.
- Emphasize Professional Development for teachers.
- Cultivate student and staff technology leaders.

# GNPS 1:1 iPad Initiative

## Flexible Seat

With no adjustments, keeps students comfortable in a variety of postures.

## Plastic Shell

Comfort without upholstery means easy maintenance

## Open Seat Design

Offers easy access, while arms serve as backpack hooks.

## Steelcase Warranty

Meets and exceeds the toughest durability testing available.

## Casters

Lends mobility for quick, easy transitions between classroom modes.

## Personal Worksurface

Adjustable, non-handed, and large enough to support digital and analog resources.

## Optional Cupholder

Frees up worksurface area for books and technology.

## Swivel Seat

Keeps open sight lines between student and instructor, whiteboard, and other students.

## Storage Base

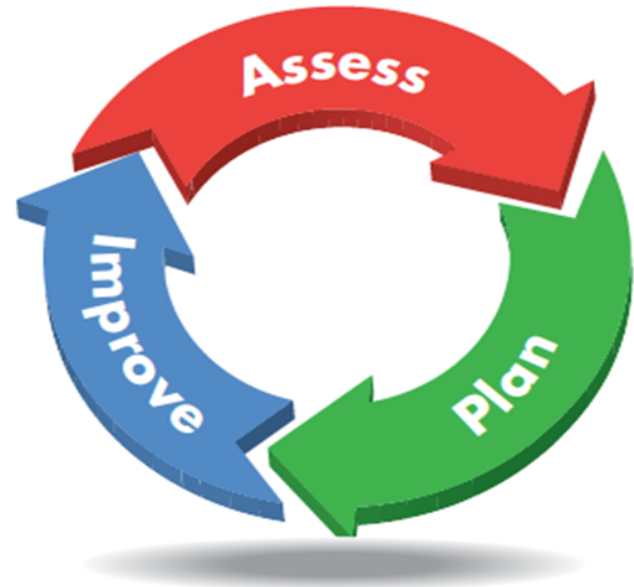
Keeps backpacks and personal belongings out of the aisle.



## Reimagine The Learning Environment (Node Chair)



# GNPS 1:1 iPad Initiative



- **Ongoing School-Based Program Assessment**
  - Annual Online Student Surveys
  - Annual Online Staff Surveys
  - Annual Online Parent Surveys
- **Reviewed by School Technology Committees**

## GNPS 1:1 iPad Initiative

- **FAQ #6:**  
**Don't children already have too much screen time?**



High School

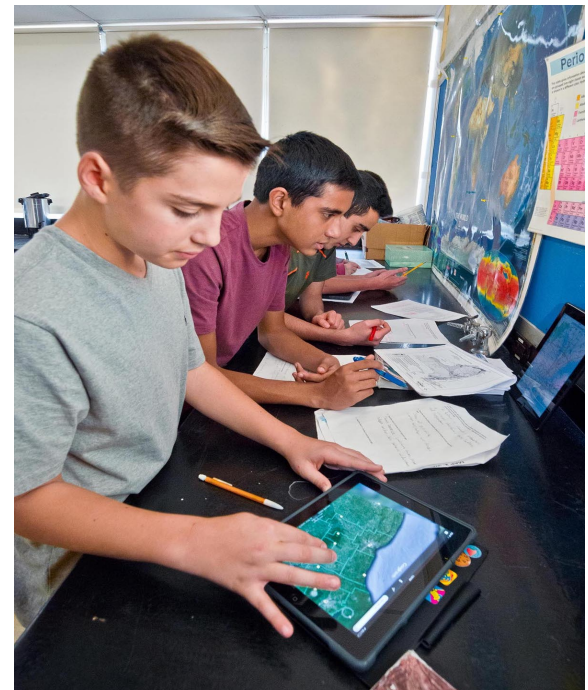
# GNPS 1:1 iPad Initiative



**Yes, but all screen time is not created equal so we should prioritize learning over recreation and socialization use.**

# GNPS 1:1 iPad Initiative

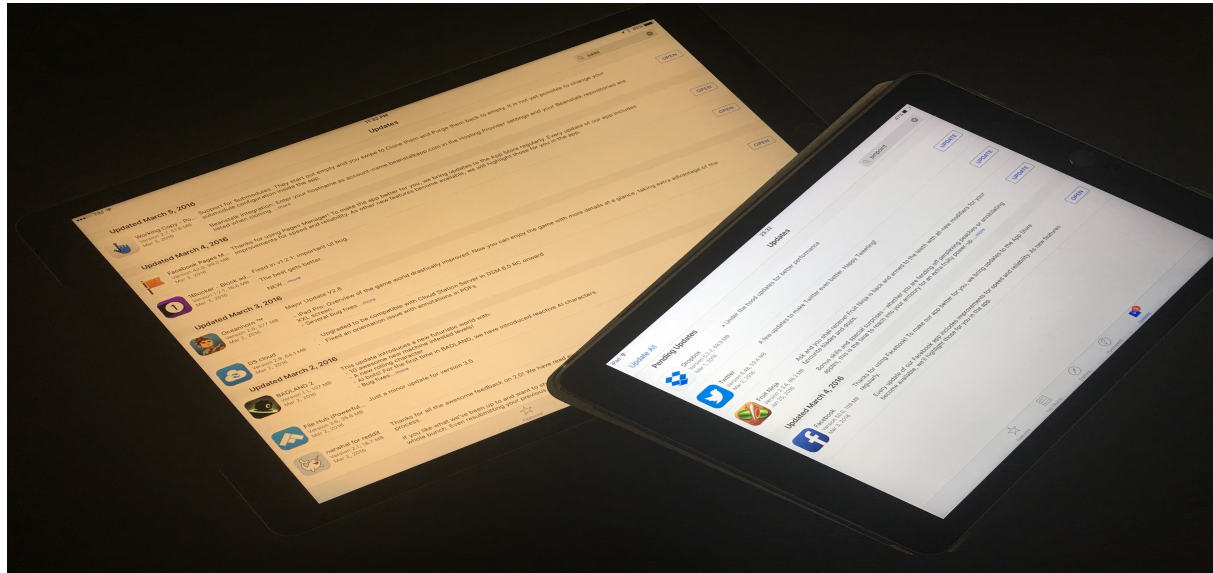
- **FAQ #7:**  
**How can we minimize eye strain from the iPad screen and prevent sleep disruption?**



Middle School



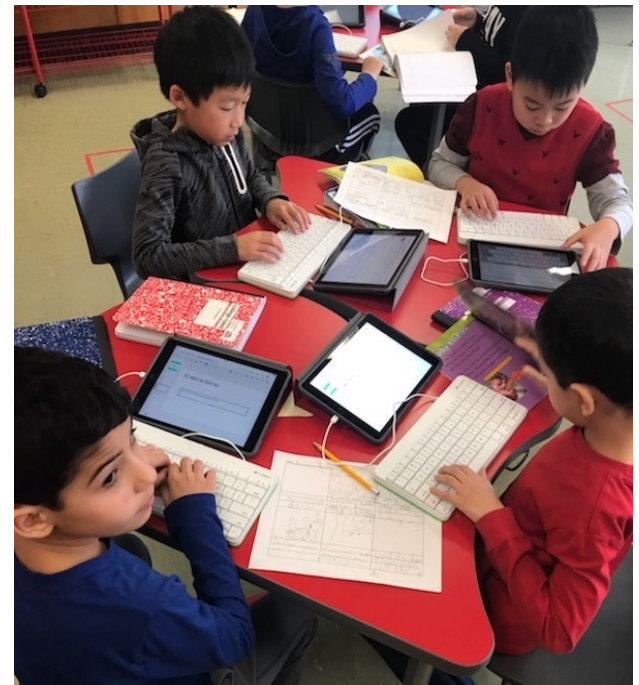
# GNPS 1:1 iPad Initiative



- Use **larger** text sizes.
- Dim screen brightness and use Night Shift mode.
- Take breaks every 20 minutes.
- Set time limits for recreational and social use.
- Use in common rooms and leave there to charge overnight.

# GNPS 1:1 iPad Initiative

- **FAQ #8:**  
**How do we teach keyboarding now that it is NYSED's goal to implement computer-based testing in 2020?**



Elementary School

# GNPS 1:1 iPad Initiative

## KEYBOARDING CHART



- We teach Keyboarding beginning in Grade 3.
- We reinforce Keyboarding in Grades 4 and up.
- We provide class sets of iPad keyboards.
- We are adopting new Keyboarding apps/sites.
- We are enhancing our Keyboarding practices.

# GNPS 1:1 iPad Initiative

- **FAQ #9:**  
**How are daily homework assignments facilitated by the digital workflow of the iPad and Google Classroom?**



High School



# GNPS 1:1 iPad Initiative



## Teacher Hands Out the Homework:

- Assigns the homework in class.
- Hands out the assignment by posting it in Google Classroom.



## Student Completes and Hands In the Assignment:

- Tracks the homework using an app.
- Receives the assignment in Google Classroom.
- Opens the assignment and completes it in Notability.
- Submits the completed assignment back to the teacher in Google Classroom.

# GNPS 1:1 iPad Initiative

- **FAQ #10:**  
**What is your opinion of studies that show students retain more information when they write notes by hand?**



Middle School

# GNPS 1:1 iPad Initiative



- Focus on large college lecture halls with BYOD laptops.
- Unlike a laptop, students can write by hand on an iPad.
- GNPS class sizes are small enabling individual attention.
- GNPS instructional methods are not as reliant on lecture.
- GNPS students and teachers use the same device and apps.
- GNPS students organize their iPad as a digital binder.
- Backpacks and lockers no longer overflow with paper.

# FAQ #11: How does the school control the iPad and limit distractions in class?



Middle School



# GNPS 1:1 iPad Initiative



## Instructional Methods

- Establish Expectations
- Engagement in the Lesson
- Classroom Management

## Technological Method

- Apple Classroom App
- Bluetooth Proximity
- Infinite Campus Integration

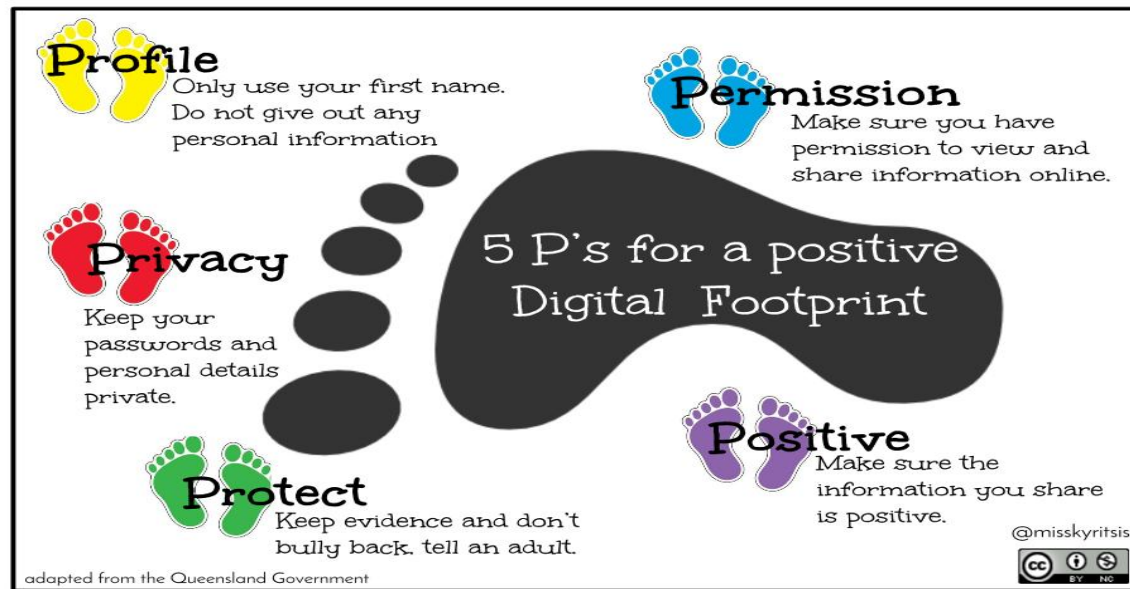
# GNPS 1:1 iPad Initiative

- **FAQ #12:**  
**How do we help students and parents to manage appropriate iPad use at home?**



Middle School

# GNPS 1:1 iPad Initiative



## Instructional Methods

- Teach Digital Citizenship beginning in Grade 2.
- Offer school-based Parent Events and PTA Workshops.
- Post Parent Tips online with advice for managing iPad use.

## Technological Methods

- School district controls many of the iPad settings.
- Provide a school-approved App Catalog instead of the App Store.
- Lock Safari browser history for Web browsing accountability.

# Questions and Answers



 **Thank you for your support of our Instructional Technology program!**

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