In Search of The Holy Grail for Technology

Bring Your Own Device (B.Y.O.D.)
And it can be ... any device ... including an IPAD

NASTECH
May 18th 2011

Five Years Later
A Few Steps Closer to Finding the Holy Grail
The 21st Century Kid!

College and Career Ready

GLOBAL CITIZEN • CREATIVE
ACTIVE • MISSION-DRIVEN
CIVICALLY-ENGAGED • FUN
MUSICAL • ARTISTIC
PLANNER • BRAVE
EXPERIENTIAL • EMOTIONAL
INDEPENDENT • THINKER
INVENTOR • WRITER
INVESTIGATOR • DREAMER • ACTION-ORIENTED • HAPPY
INSPIRED • INSPIRATIONAL • ORIGINAL
ACTIVE • FRIENDLY • FLEXIBLE • COLLABORATOR
MUSICAL • ARTISTIC • CONNECTED
CREATIVE • LEADER • BRAVE • GREEN • EMOTIONAL
CONSTRUCTIVE • OPTIMISTIC • COLLABORATOR • INNOVATOR
Empathetic • Caring • GLOBAL CITIZEN • CREATIVE
Connected • VISIONARY • ACTIVE • MISSION-DRIVEN

Peter H. Reynolds 2008
21ST CENTURY NEW YORK EDUCATOR

- Leader
- Fun
- Innovative
- Stick-to-it-iveness
- Optimistic
- Visionary
- Unstoppable
- Daring
- Communicative
- Storyteller
- Excited
- Big Thinker

- Committed
- Fearless
- Dedicated
- Bluetoothed
- Dreamer
- Project-based
- Creative
- Curious
- BYOD
- Facebook
- Real Book
- Tech Savvy
- Social
- Competitive
- "In the Now"
- "Googlicious"
- Passionate
- Concerned about the future
- Persistent
- Wireless
- Generous
- Spiritual
- Collaborative
- Imaginative
- Fun
- Connected
- Tech Ready
- Media Master
- Data Driven
- Versatile
- Compassionate
- Problem Solver
- Smart
- Hungry
- Savvy
- Energetic
- Connected to the Community
- Flexible
- Fun
- Hungry
- Savvy
- Energetic
- Digital

Sky’s the limit!

Created with educators at TCEA with author/artist Peter H. Reynolds who joined via Skype.
21st Century Technology Director

Virtualization

B.Y.O.D
1:1

W.I.S.E
Wireless Interface In A Secure Environment

Web 2.0 + Applications

E.S.P.
Excellent Software Programs

M.Y.O.C
Make Your Own Courses

M.Y.O.C.A.T.
Make Your Own Curriculum Adaptive Textbook

STAGE 1

STAGE 2

STAGE 3

College and Career Ready

Data Driven

2011
Mineola UFSD Mobile Device Snapshot

Stage 1

District: Mineola UFSD
School(s):
- Hampton Elementary (Grades K-2)
- Meadow Elementary (Grades K-2)
- Jackson Elementary (Grades 3-4)
- Mineola M.S. (Grades 5-7)
- Mineola H.S. (Grades 8-12)

Logistics/Infrastructure
Bandwidth: 1 Gigabit/10Gigabit Maximum

Types of Devices
- IPads: approx. 2800
- Chromebooks: 30
- Desktop environment: 250 Virtual Environment (VMWARE)

Student/device ratio: 1:1
Grades 3-12: Take Home IPADs including Sprint IPADs for students with no Internet
Grades K-2: Cart Based Model

Tech Support
- Technical: 4 FT Core Staff
- 4 Information Tech Aides
- .4 HS Teaching Staff

District Firewall
Cisco ASA

Device Management
- Orchard/Espark MDM
- Google Chrome Console

Classroom Implementation
- Software: (There is An App For That!)
- Projection Devices: Promethean/Eno Board/NEC M322X/WAP in Every Classroom

Device Filtering
Lightspeed Mobile Filtering

Printing
Lexmark Mobile Solution
There is an App For That!
Stage 2

Web 2.0 + Applications

E.S.P.
Excellent Software Programs

Anchor Apps

EbackPack
eSpark
Edmodo
Google Apps/Ilife Suite
Math Space
LightSail
School 4 One
ThinkCerca
A good starting point is ItunesU and/or Amazon
Demonstrations

Dr. Whittney Smith and Lisa Marino

Mineola Conceptual Curriculum Framework

iTunesU, EbackPack & Edmodo

Matt Gaven, Dominick Tolipano, and Deb Doherty

Differentiated Learning & the Flipped Classroom

MathSpace, School4One & LightSail
Fun fact: 78 Mineola ITunesU Courses
Mineola MS
Flipping the Classroom & Differentiated Instruction

Mathspace Dashboard

School4One Dashboard

LightSail Dashboard
Future Concern(s)/Prediction(s)

Coding & Badges For All Using KidOyo Platform

- Solar System Coding Project
- Independent Student Coding Project
- Reading Milestone Badge
- Poetry Badge
Future Concern(s)/Prediction(s)

**Big Data** = **Dynamic Data Dashboards**

State Exam

- 60%: HS grads receiving Reg diploma
- 79%: Grad receiving Reg diploma with Adv Designation
- 95%: Passing English Regents
- 70%: Scoring 85+ on English Regents
- 60%: Proficient in 4th grade science
- 40%: Proficient in 8th grade science

NWEA

- Standard: Correct 0 Incorrect 0 Score 38

SCHOOL4ONE

MathSpace

SMS

- E-School
- Infinite Campus
- Power School
- School Tool

EbackPack
- eSpark
- Edmodo
- Google Apps/Ilife Suite
- Math Space
- LightSail
- School 4 One
- ThinkCerca
21st Century Technology Director
Revised May 2016

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1:1

W.I.S.E
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STAGE 1

STAGE 2

Web 2.0 + Applications

E.S.P.
Excellent Software Programs

STAGE 3

M.Y.O.C.A.T.
Make Your Own Curriculum Adaptive Textbook

M.Y.O.O.C
Make Your Own On-Line Courses

Data Dashboard Director

Standards Based Report Card + Badges

21st Century Administrator
Ignite Passion
Inspire Change
Define Vision
## Sample Standards Based Report Card

### Language
- **Language - Conventions of Standard English**
  - Demonstrates conventions of English grammar and usage when writing or speaking
  - T1: 3  
  - T2: 3
- **Knowledge of Language**
  - NA
- **Vocabulary**
  - NA
- **Determines and classifies meaning of grade appropriate words in context**
  - T1: 3
  - T2: 3
- **Demonstrates understanding of word relationships and nuances**
  - NA
  - T1: 2
- **Uses ratio and rate reasoning to solve real-world and mathematical problems**
  - NA
  - T1: 3
  - T2: 3

### Social Studies
- **Democracies and Rights**
  - NA
  - T1: 3
  - T2: 3
- **Geography**
  - NA
  - T1: 3
  - T2: 3
- **History**
  - NA
  - T1: 3
  - T2: 3
- **Culure and Society**
  - NA
  - T1: 3
  - T2: 3

### Science
- **Scientific Practices**
  - NA
  - T1: 3
  - T2: 3
  - T3: 3
- **Science**
  - NA
  - T1: 3
  - T2: 3
  - T3: 3

### Special Area Subjects
- **Music**
  - NA
  - T1: 3
  - T2: 3
  - T3: 3
- **Physical Education**
  - NA
  - T1: 3
  - T2: 3
  - T3: 3

### Reading
- **Key Ideas and Details**
  - NA
  - T1: 3
  - T2: 3
- **Craft and Structure**
  - NA
  - T1: 3
  - T2: 3
- **Integration of Knowledge and Ideas**
  - NA
  - T1: 3
  - T2: 3
- **Ratios and Proportional Relationships**
  - NA
  - T1: 3
  - T2: 3

### Writing
- **Text Types and Purposes**
  - NA
  - T1: 3
  - T2: 3
- **Text Structures and Logical Development**
  - NA
  - T1: 3
  - T2: 3
- **Research and Inquiries**
  - NA
  - T1: 3
  - T2: 3
- **Range of Writing**
  - NA
  - T1: 3
  - T2: 3

### Speaking and Listening - Comprehension and Collaboration
- **Evidence of Knowledge and Use**
  - NA
  - T1: 3
  - T2: 3
- **Speaking and Listening - Coherence and Relevance**
  - NA
  - T1: 3
  - T2: 3

### Order of Achievement
- **Special Area Subjects**
  - Music
  - Physical Education
- **Writing**
  - Reading
  - Speaking and Listening

### Grade: 6 School Year: 2015 - 2016