

9th Grade 1:1 Chromebook Initiative

School Committee
November 15, 2017

Timeline

- September -** Strategic Planning Committee
- September -** Technology Task Force Committee
- October -** Four Productive meetings
 - Research surrounding districts
 - Networking through list of experts
 - Needs Assessment with Staff
 - Survey of MHS Alumni
 - Sub Committees
 - 9th Grade 1:1, Digital Learning, Assistive Device
 - Technology, Instructional Development, Apps Team,
 - Technical Support
- November -** Vendor quotes, feedback -teachers & department chairs
 - Prepare proposal for next Technology Task Force Meeting (12/1)

Goals

School Committee

Goal #2b: Continue to develop and utilize differentiated instruction practices to increase the rigor of Milton High School honors and college prep levels by 2018.

Goal #6: MPS shall create and begin to implement a K-12 Technology Plan by June 2018.

Strategic Plan

- Increase student achievement and teaching practices utilizing technology by January of 2018.
- Increase the awareness of the triumphs and challenges associated with becoming a one-to-one school district by October 2017.
- Increase the use of current educational technology trends by June of 2019.
- Increase awareness of a student's responsibility of becoming a safe and ethical Digital Citizen by June 2019.
- Integrate the use of technology to better differentiate and personalize learning by June 2019.

Proposal

Purchase

Item	#	Cost	Total
Chromebooks	300	\$320	\$96,000
Charging Carts	10	\$1400	\$14,000
TOTAL			\$110,000

Lease

Item	#	Cost	Total
Chromebooks & Charging Carts	300 10	36 Mo Lease (\$3271.97 per mo)	\$117,790.92
TOTAL			\$117,790.92

Infrastructure

- Additional access points
- Single sign-on
- Mobile web filtering

9th Grade 1:1

Routes

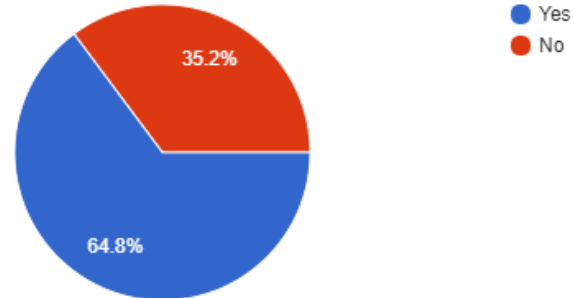
BYOD

- 300 Chromebooks
- 10 Charging Carts
- Devices in classrooms
- Roll-up each year
 - Fall 2021 MHS 1:1
 - Result = Pierce 1:1
- Continuous commitment

- Students bring device
- Single sign on
- Do not have = MHS Loans
 - 300 Devices for students in need
- All MHS Fall '18

Do you currently own and use a technology device, other than your phone, you would be able to bring to school on a daily basis?

392 responses



Rationale

- Improve Student Achievement
 - Personalized learning
 - Closing achievement gap
 - College & career readiness
 - Student centered learning
 - Digital citizenship
 - Assistive technology
- Improve Instructional Practices
 - Personalized learning
 - Interdisciplinary units
 - Embed STEM throughout
 - Project Based Learning
 - Empowering students
 - Data - formative assessments
- MCAS
 - Electronic
- Prepare to be Ethical Digital Citizens
 - Embed Digital Citizen Curriculum into the curriculum
- Prepare Students for College and Beyond
 - Google Drive
 - Assignment electronically

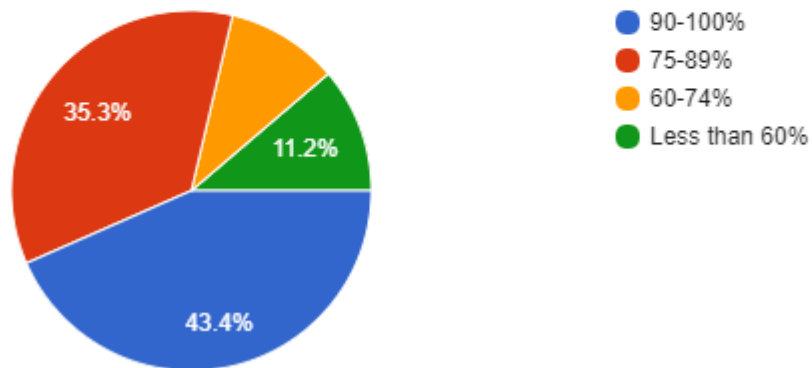
Ways of Incorporating 1:1

- Interactive reviews
- Project Based Learning (PBL)
- Interactive Lessons
- Student Collaboration
- MCAS Prep
- Research Beyond Textbooks
 - Access Textbooks
- Virtual Field Trips

Evidence

What percent of your assignments are/were submitted electronically in college?

258 responses



Evidence

Google Drive - 70.5%

Miltonps E-mail - 53.1%

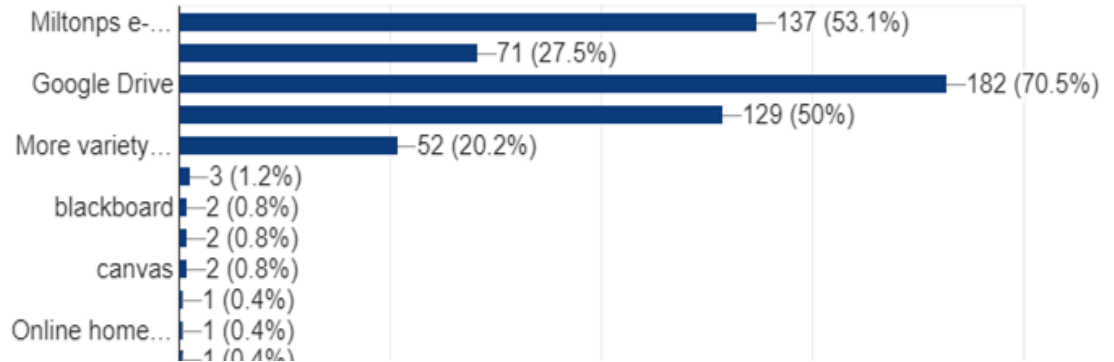
Microsoft Office - 50%

Google Classroom - 27.5%

Variety of Web 2.0 Tools - 20.2%

What technology should be used at MHS to better prepare students for college?

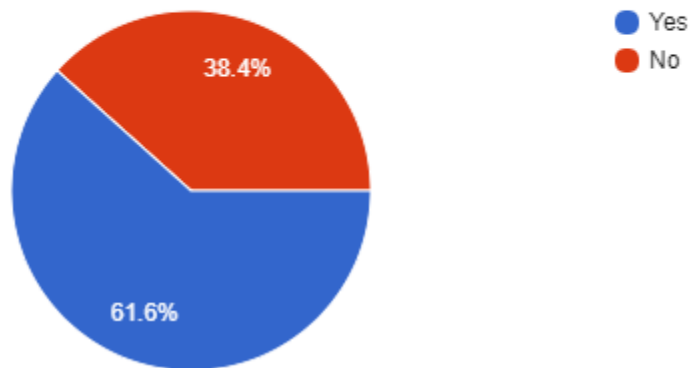
258 responses



Evidence

Do you believe if MHS is a one-to-one school (one Chromebook per every one student) it would better prepare students for college, or their first job?

258 responses



Evidence

- I believe that MHS should put more effort in finding and implementing web based review items for students and posting homework questions to help student study.
- Every student should understand the basics of using laptops, web apps such as google drive, microsoft office, and school email/website to succeed in college.
- Being in my third year at Wentworth Institute of Technology, I find it faster and easier to be able to upload assignments electronically (on Blackboard), having a laptop provided by the school and using applications (Outlook, Word, Excel, etc.) to prepare for the future.
- I think kids should be ready to check emails daily and just get comfortable with this and using computers. I can never leave my apartment without my computer.
- Everyone has their own laptop in college and most things are done electronically so getting used to this format would be helpful.
- Being able to type and take notes and pay attention at the same time is a big help!

Evidence

- While I did not finish college, today I work for an internet based tech startup (based in San Francisco) at their Boston office that often utilized Chromebooks for associates and day-to-day operations. While I chose to answer "yes" to the previous question, my company realized Chromebooks are not the best solution for the business' needs and are shifting into MacBook Air and, in some cases (myself included), MacBook Pro computers.

That said, everything we do is stored on Google Drive and a Chromebook is among the best way to introduce the Google Drive to students. Google Docs, Google Sheets and Google Slides are among the most utilized tools in the Google suite. From interpersonal collaboration to rapid file sharing and beyond, Google Drive is becoming a necessity in the workplace and knowing how to use those tools is a skill that I was fortunate enough to learn on my own. I believe it's a skill that needs to be taught and understood in order to succeed in the real world because, for example, Google Sheets and Microsoft Excel are two very different tools.

- I've gone on to become a teacher myself and something that I did in college, and that I now do with my students, is create podcasts and video essays instead of always submitting written essay. The modern world is changing and knowing how to record yourself, and being comfortable on mic and on camera, is becoming increasingly important.

What are Other School Systems Saying?

- Digital feedback is a game changer
- Assessing online provides instant feedback to personalize learning
- Teachers are now becoming facilitators, using stations and PBL
- ELA writing process has been revolutionized
 - write, revise, reflect...increased and more meaningful teacher feedback
- History - research, produce artifacts other than essay → videos, represent learning in multiple ways
- Math → Desmos, Geogabra, formative assessments...
- World Languages → voice recording

Questions?