



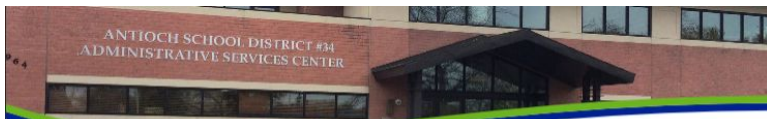
Technology Committee

February 6, 2018 Technology Plan Update

2017-2018 Superintendent Goal

Creating, presenting and gaining approval of a long-term technology plan including the completion of a hardware/device study and sustainability/replacement cycles with associated costs at the March 20th, 2018 Board of Education meeting.





ANTIOCH SCHOOL DISTRICT 34
Inspiring personal excellence.

Strategic Plan 2015-2020

MISSION

To inspire a passion for learning that empowers all students to achieve **personal excellence**

VISION

Students will achieve **personal excellence** when everyone demonstrates:

- Commitment to continuous improvement
- High expectations for academic, social, emotional and behavioral growth
- Effective collaboration, communication, critical thinking and creativity
- Ownership, responsibility and accountability for growth and development

GOALS

- Continuous Student Growth & Achievement
- Supportive Learning Environment
- High Quality Workforce
- Family and Community Partnerships
- Efficient and Effective Use of Resources

CORE VALUES/COMMITMENTS

We believe students learn in **different ways and at different rates**.

We believe it is our responsibility to guide students towards **self-sufficiency, ownership, responsibility and accountability for their own learning**.

We believe in providing a **safe and secure environment** in order to foster a community of collaborative learners.

We value **continuous improvement through teamwork, collaboration and shared leadership** at all levels.

We believe a **high quality staff** is essential to a high-achieving school system.

We believe that **corroborative partnerships and effective communication** among the community, home and school accelerates student success.

We believe the District must be a **good steward** of community resources.



Alignment to Goals:

- Continuous Student Growth & Achievement
- Family & Community Partnerships
- Efficient and Effective Use of Resources

Antioch School District 34	Antioch Elementary School	Hillcrest Elementary School	Oakland Elementary School	W.C. Petty Elementary School	Antioch Upper Grade School
964 Spafford Street Antioch, IL 60002 847-838-8401	817 N. Main Street Antioch, IL 60002 847-838-8901	433 E. Depot Street Antioch, IL 60002 847-838-8001	818 E. Grass Lake Road Lake Villa, IL 60046 847-838-8601	850 Highview Drive Antioch, IL 60002 847-838-8101	800 Highview Drive Antioch, IL 60002 847-838-8301

www.antioch34.com



Main Components of Technology Plan:

- Current State & Infrastructure
- Device Selection & Replacement Cycle
 - Device Study
- Financials
- Curriculum Integration
- Professional Development
- Communication

Tonight's
Topics



D34 Device Study								
Device	Cost of Device Ownership/Year	Purchase Price	Lifespan	Capability	Ease of Integration in D34 Systems	Steps to Integrate into D34 Systems	Unintended Consequences	Advantages
Laptop (Apple)	\$115 - \$160	800 Apple pays back 20-25% of original cost	5-7 Years	Unlimited	Current Structure.	None. Install Remote Software (Staff Machines Only)	Higher Upfront Cost compared to Chromebook & Tablets.	Longevity/Build Quality, Free Software (AirPlay, Keynote, Pages, Numbers, iMovie, Garageband, Photobooth, Remote Desktop) System Integration Compatible with Current MDM Staff Familiarity (85% of Staff currently using) System Security (No Virus Software Needed)
Laptop (PC)	\$160-\$267	\$800	3-5 Years	Unlimited	Current Structure.	Virus Software Needed Productivity Software (Word, Excel, PowerPoint, Etc.) AirParrot Needed	Higher Upfront Cost compared to Chromebook & Tablets.	Longevity/Build Quality, System Advantages (Windows) Compatible with Current MDM
Chromebook	\$133	\$400	3 Years OS Support for 5 Years	Internet and App Based Only. No Local Storage Needs Internet to Operate Limited to Google Classroom (No other LMS Possible)	Internet Only Will not have access to File Server Limited by Google's Structure/Limitations Doesn't have compatible MDM in district.	Purchase of MDM, Professional Development, Curriculum Integration. Re-Evaluate the File Access to the File-Server. Current practice goes against Google's Philosophy.	Curriculum Integration Review Additional increase in IT Support. Approx. \$20,000 for MDM Longevity & Build Quality is an issue. Repairs are Problematic Other Districts Experiences (CHSD117) Security/Privacy Risk (Cloud-Based Storage Only)	Cost of Purchase. Cloud-Based Only (No work lost if device is destroyed)
Tablet (Apple)	\$47 - \$65 \$125 - \$175	Standard iPad \$329 w/case iPad Pro \$875 w/case, pencil, and keyboard Apple pays back 20-25% of original cost	5-7 Years	Unlimited (For Tablets) Needs External Keyboard Folder-Based Storage Structure	Current Structure.	None.	Limited abilities compared to a true laptop.	Well established in D34 for 7 Years. Compatible with Current MDM D34 App Library Maturity In Comparison to Laptop/Chromebooks Smaller in Physical Size Cost
Tablet (Android) Galaxy Tab S2 9.7"	\$80 - \$130	\$399	3-5 Years	Unlimited (For Tablets) Needs External Keyboard Folder-Based Storage Structure	Limited by Google's Structure/Limitations Doesn't have compatible MDM in district.	Purchase of MDM, Professional Development, Curriculum Integration.	Loss of Current Paid Apps. \$20,000 for MDM	USB Support In Comparison to Laptop/Chromebooks Smaller in Physical Size Cost

D34 Device Study



Current Student Device Inventory

(as of 1/31/2018)

Total iPads

1283

Total PC Laptops

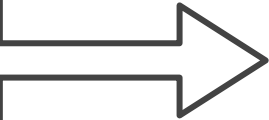
1044

Total MAC Laptops

237

Total Chromebooks

60



Latitude 3330	308
Latitude 3340	450
Latitude E5530	108
Latitude E5540	154
Samsung 900X3N-K02	24
13" MacBook Air A1466	237
iPad2	533
iPad4	293
iPad Air	327
iPad Air 2	90
iPad 2017	40



Latitude 3330	308
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iPad2	533
iPad4	293
iPad Air	327
iPad Air 2	90
iPad 2017	40

4 years old - currently evaluating the use in buildings

7 years old - iOS 9 (current is iOS 11)
Will be replaced this summer due to iOS limitation



Technology Committee Plan

The Antioch School District's 2017 - 2022 Technology Plan will serve to:

- Provide more accessible technology for every student.
- Provide professional development strategies to enable stakeholders to use technology as a tool to enrich student learning.



Ability/Availability of Digital Resources



Search

My Content

My Classes

Share

Back

Convection Currents

In Classroom

Homework

Students

Questions

Export

STUDENT NAME

WATCHED

RESPONSES

GRADE

RESET

Teacher (that's me!)

0 /100

56 /100

67 /100

67 /100

67 /100

78 /100

78 /100

78 /100

78 /100

89 /100

89 /100

89 /100

89 /100



Ability/Availability of Digital Resources



Search

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Export

STUDENT NAME	WATCHED	GRADE ▲	LAST SEEN	TURNUED IN	RESET
	✓	100 /100	5 months ago	5 months ago	↺
	✓	100 /100	5 months ago	5 months ago	↺
	✓	100 /100	5 months ago	5 months ago	↺
	✓	100 /100	5 months ago	5 months ago	↺
	✓	100 /100	5 months ago	5 months ago	↺
	✓	100 /100	5 months ago	5 months ago	↺
	✓	100 /100	5 months ago	5 months ago	↺
	✓	100 /100	5 months ago	5 months ago	↺
	✓	89 /100	5 months ago	5 months ago	↺
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	✓	89 /100	5 months ago	5 months ago	↺
	✓	89 /100	5 months ago	5 months ago	↺
	✓	89 /100	5 months ago	5 months ago	↺
	✓	89 /100	5 months ago	5 months ago	↺



Ability/Availability of Digital Resources



Search

My Content

My Classes

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Back

Convection Currents

In Classroom

Homework

Students

Questions

Export

Fill in the blank: In a divergent boundary, the plates move _____.

Multiple choice at 2:29

successful students: 13 / 23

Fill in the blank: The crust moves _____ the convection current.

Multiple choice at 2:17

successful students: 17 / 23

Match the definition with the appropriate vocabulary word: A current resulting f...

Multiple choice at 3:27

successful students: 18 / 23

Match the definition with the appropriate vocabulary word: The theory that the ...

Multiple choice at 3:27

successful students: 18 / 23

Match the definition with the appropriate vocabulary word: The separate sectio...

Multiple choice at 3:27

successful students: 19 / 23

What does the light bulb represent in this demonstration?

Multiple choice at 1:48

successful students: 20 / 23

What are the four layers of the Earth?

Multiple choice at 0:21

successful students: 22 / 23

What does the water represent?

Multiple choice at 1:53

successful students: 22 / 23

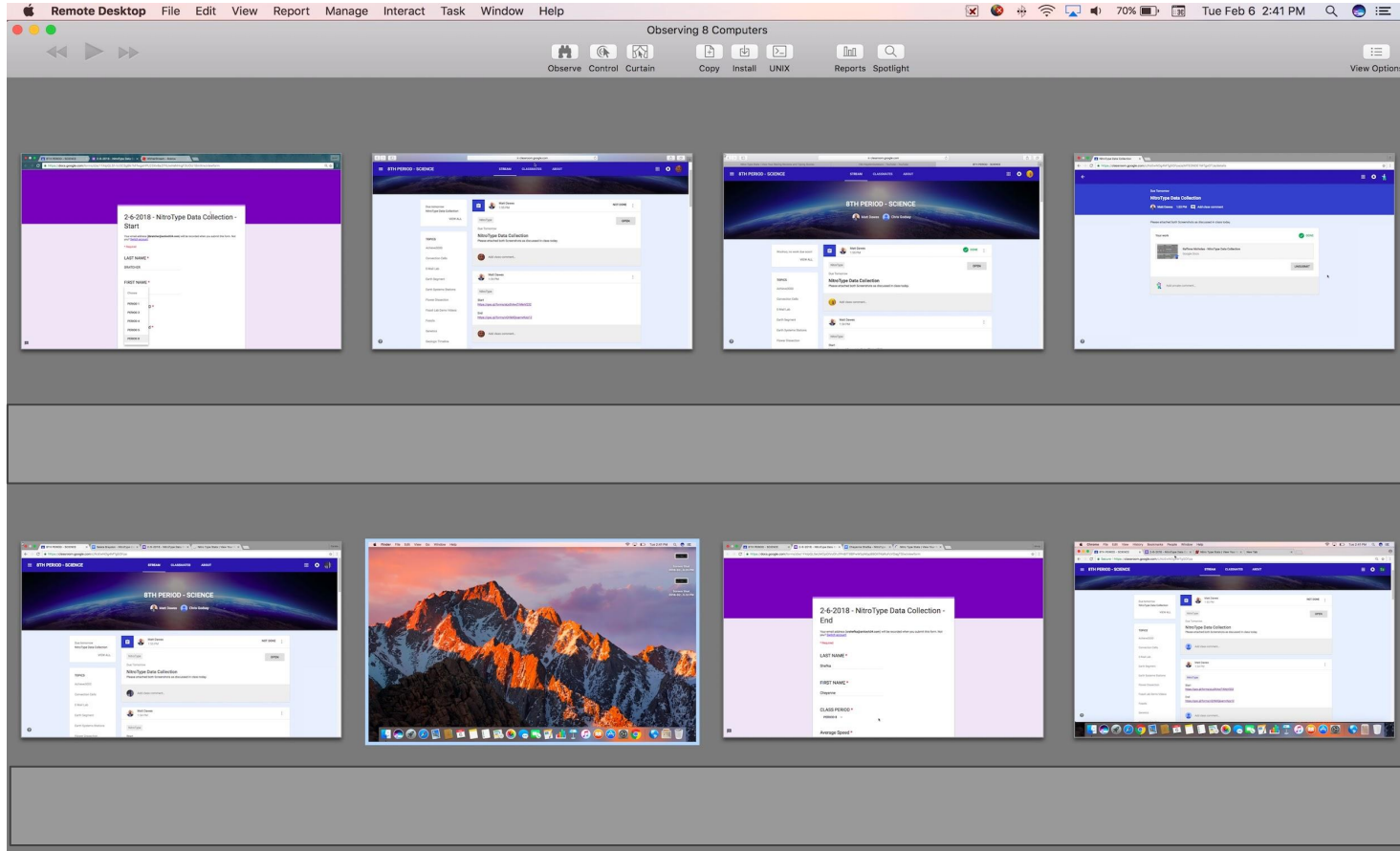
What moves the Earth's plates?

Multiple choice at 2:10

successful students: 22 / 23



Student Progress & Security Monitoring



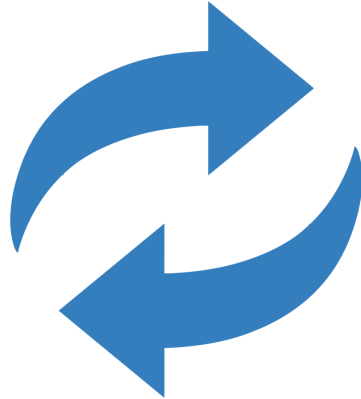
Student Feedback

- Always Available/Accessible, Maximize opportunities
 - Teachable Moments, Productivity
- Dynamic Learning Experience
 - Logging in, Device Performance, Workflow & Pace of Class
- Collaboration
 - Everyone can contribute to group work simultaneously (Google Doc, etc.)
- More Comprehensive Understanding
 - Creating a better learning experience by utilizing programs and digital tools to maximize student understanding



Replacement Cycle

- The replacement cycle will be built in with the rollout of the district's 1:1 program, beginning with the 2018-2019 school year.
- Replacement cycles are dependent upon Operating System (example iPad 2s)
- Classroom desktops and labs will be phased out



Financials

- Technology Department has (5) Three-Year Technology Equipment Loan for the Infrastructure Rebuild of 2014-2015
 - Two will be paid off this fiscal year totaling \$50,000
 - Cisco Core Equipment
 - Virtualization Servers
 - Two will be paid off next fiscal year totaling \$55,000
 - Fiber SAN
 - KACE Management System
 - One will be paid off in FY20 totaling \$106,000
 - Staff Laptops
- The district is utilizing an e-Rate consultant to utilize more of the e-rate funds, which will help finance the technology needs of the district
- Technology grants are being researched



Approximate Cost of 1:1 Implementation Years 1-6

Example:

- Standard iPads K-2
 - About \$40,000 per year, 6 year replacement cycle, trade in
- Standard iPads 3-5 w/Keyboards (Take Home)
 - About \$45,000 per year, 6 year replacement cycle, trade in value
- Macbook Air 13" 6-8 (Take Home)
 - About \$125,000 per year, 6 year replacement cycle, trade in value

Trade in value is about 20-25% of purchase cost towards future purchases



Approximate Cost of 1:1 Implementation Years 7-12 w/20% Trade In

Example:

- Standard iPads K-2
 - About \$32,000 per year, 6 year replacement cycle, trade in
- Standard iPads 3-5 w/Keyboards (Take Home)
 - About \$36,000 per year, 6 year replacement cycle, trade in value
- Macbook Air 13" 6-8 (Take Home)
 - About \$100,000 per year, 6 year replacement cycle, trade in value

Trade in value is about 20-25% of purchase cost towards future purchases



Another Option: Approximate Cost of 1:1 Implementation Years 1-6

Example:

- Standard iPads K-2
 - About \$40,000 per year, 6 year replacement cycle, trade in
- Macbook Air 13" 3-8
 - About \$250,000 per year, 6 year replacement cycle, trade in value
- OR iPad Pro 10.5" w/Keyboard 3-8
 - About \$270,000 per year, 6 year replacement cycle, trade in value

Trade in value is about 20-25% of purchase cost towards future purchases



Approximate Cost of 1:1 Implementation Years 7-12 w/20% Trade In

Example:

- Standard iPads K-2
 - About \$32,000 per year, 6 year replacement cycle, trade in
- Macbook Air 13" 3-8
 - About \$200,000 per year, 6 year replacement cycle, trade in value
- OR iPad Pro 10.5" w/Keyboard 3-8
 - About \$216,000 per year, 6 year replacement cycle, trade in value

Trade in value is about 20-25% of purchase cost towards future purchases



Draft Implementation Timeline

- **2018-2019**
 - K-2: New iPads, 1:1 in classroom
 - 3-5: Redistribute District iPads for 1:1 in classroom
 - 6-8: Redistribute District Laptops for 1:1 in classroom
- **2019-2020 (New K-5 structure)**
 - No change - Minor device upkeep
- **2020-2021**
 - K-2: No Change
 - 3-5: New iPads w/Keyboards, 1:1 Take Home
 - 6-8: New Laptops, 1:1 Take Home
- **2021-2024**
 - No change - Minor device upkeep
- **2024-2025**
 - K-2: Replacement of iPads
- **2026-2027**
 - 3-5: Replacement of iPads
 - 6-8: Replacement of Laptops



Summary (Numbers are Raw)

- Approximate Annual Cost (6 Year) = \$189,000
 - Technology Fee (based on 2800 student avg at \$50) : \$140,000
 - District Contribution: \$49,000
- Replacement Cycle = 6 Years per Device
- Increase in Technology Fee to \$60 (\$50 device, \$10 student insurance - self funded)
- Average Student Device Purchase Budget over last 3 years = \$158,755
- What about Free/Reduced?
 - IT budget will always have a line item to supplement the needed income for the 1:1 program. This is affordable based on the normal student yearly purchases and the payoffs of major loans



Thank You for your support of Antioch 34!

- Board Discussion

