

# Technology Update 22-23 Goals

School Year 2022-23

December 12, 2022

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Director of Technology

MONTCLAIR PUBLIC  
SCHOOL DISTRICT

# All Kids can Learn



# All Kids are Special

# Department of Technology / Christopher Graber

## Department Goal:

## How Goal will be Addressed:

Goal I. Design, implement, and sustain a robust, secure network to ensure sufficient, reliable high-speed connectivity for learners, educators, and leaders.

- Utilize Erate Funding to update existing wireless & switching / UPS Infrastructure.
- Replace 490 Access Points / Renew Licensing 5 Years.
- Install Next Generation Firewall - Cisco Firepower.
- Successfully Implement Security Enhancements to our network - AMP, Umbrella, Duo.

Goal II. Develop, test and document a well structured and easily understood disaster recovery plan which will help the district recover as quickly and effectively as possible from an unforeseen disaster or emergency which interrupts information systems and business operations.

- Maintain Daily Back - Ups / Third party in the cloud.
- Replicate additional copies of data in district.
- Develop a plan for restoring services in the event of an emergency.
- Acquisition of additional servers.
- Work with B.A. Cybersecurity Insurance.

Goal III. Provide students the opportunity to connect with each other and the world through technology in the classroom, during instructional / non-instructional time, and at home.

- Continuation / Year 2 - District 1:1 Initiative.
- Utilization of Funding from ECF (Emergency Connectivity Fund).



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## Department Goal:

Goal I. - Design, implement, and sustain a robust, secure network to ensure sufficient, reliable high-speed connectivity for learners, educators, and leaders.

## Update

- Utilized Erate Funding to update existing wireless & UPS Infrastructure.  
**-Output - monitored battery Backup - prevent outages**
- Acquired 178 of the 490 Access Points / Renewed Licensing 5 Years - Installation Date  
**Output -- Wifi 6 enabled Access Points - more devices**
- Next Generation Firewall - Cisco Firepower.- Installed  
**-Output - Increased Bandwidth from 1GB - 3GB**
- Successfully Implemented Security Enhancements to our network - Endpoint solution, Network Security, MFA( district administration) , threat protection  
**-Output - 15 % decrease in Phishing Attempts / Compromised Accounts**



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## Department Goal:

Goal II. Develop, test and document a well structured and easily understood disaster recovery plan which will help the district recover as quickly and effectively as possible from an unforeseen disaster or emergency which interrupts information systems and business operations.

## How Goal will be Addressed:

- Maintain Daily Back-Ups - Third party in the cloud  
**Output - Secure data back-ups**
- Develop a plan for restoring services in the event of an emergency  
**-Output - In the process of working with one of our vendors in conducting a cyber security audit**  
**- Findings will guide / shape D.R. Plan for the district**
- Replicate additional copies of data in district  
On Premise / 3rd Party  
**- Output - recommended service - waiting on audit findings**
- Acquisition of additional servers - Pending Budget / Cyber Security Audit Findings



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Department Goal:	How Goal will be Addressed:
<p>Goal III. Provide students the opportunity to connect with each other and the world through technology in the classroom, during instructional / non-instructional time, and at home.</p>	<ul style="list-style-type: none"><li>• Continuation / Year 2 - District 1:1 Initiative. - <b>Output - 1:1 K-12 District Wide</b></li><li>• Utilization of Funding from ECF (Emergency Connectivity Fund). - <b>Output - Successfully Deployed ECF Devices to any family in need</b></li></ul>



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## Emergency Connectivity Fund

**All ECF Devices Total: 3,080**

**Student At-Home Total: 1,994**

**Student School Total: 848**

**Staff Total: 238**



## Next Steps:

- Plan / Budget Phase 2 of Wireless Access Point Project - Acquire remaining 312 access points
- Plan / Budget - Installation of Layer I Core switches
- Cyber Security Posture - Continue to implement recently acquired tools / software to enhance security / Disaggregate data from cyber security audit to develop a comprehensive disaster recovery plan
- Continue to utilize funds from ECF to address at home technology needs
- Plan for a grade kindergarten, Grade 6 and Grade 9 Refresh for district 1:1



## Special Thank You

### Technology Department:

Mrs. Lisa Rubin, Administrative Assistant

Mr. Byron Diaz, Network Administrator

Mrs. Magdalena Fischer, Manager of Information Systems

Mr. Andre Aparcana, District Technician

Mr. Nicholas Bullaro, District Technician / Systems Integration Specialist

Mr. Bruce Mittelman, District Technician

Mr. Matthew Newton, District Technician





Thank you  
Board Members  
and Community

For believing and  
working together



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