



Department of Educational Technology and Information Services

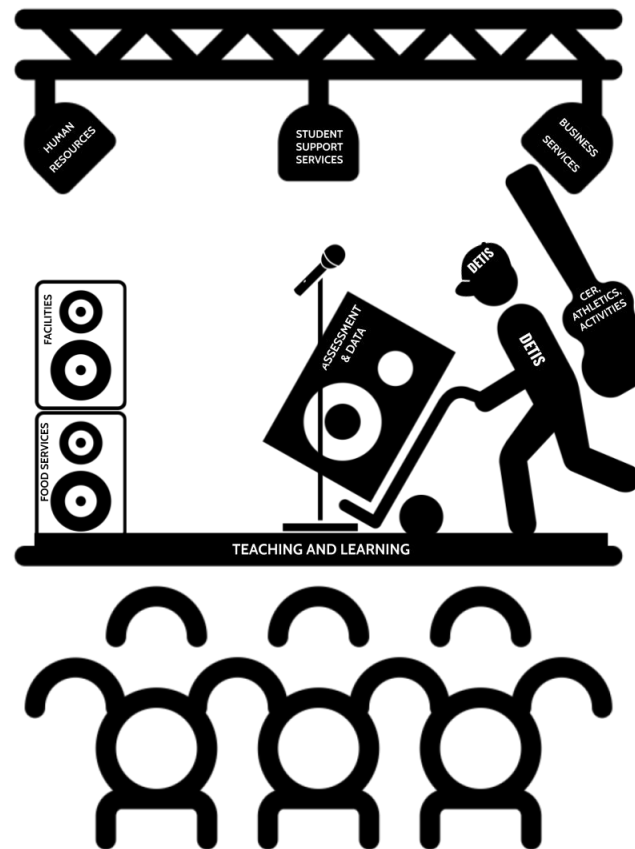
Empowering Learning

September 7, 2021



Our Department

- Support Technicians:
 - One Level 3
 - Four Level 2
 - Three Level 1
- Instructional Technology Coordinator
- Information Systems Manager
- Information Systems Programming Technician
- Information Systems Support Technician
- Purchasing Secretary
- Media Specialists
- Media Clerks
- Print Services:
 - Print shop manager
 - Assistant printer





Department of Educational Technology & Information Services

EMPOWERING LEARNING: Educational Technology Plan

Assuring learning excellence and readiness for a changing world.

GOALS

Engaging and Empowering Student Learning through Adult use of Technology

Empower and Enhance Teachers Innovative Practices

Engage Families in a Partnership for Education

Ensure Department Excellence in Service, Operation, and Productivity

GOALS

BENEFITS

- Technology used FOR learning
- Acceleration of learning through access
- Ease of learning through tools

- Increase digital literacy
- Create compelling learning experiences
- Support teachers in learning skilled online and blended instructional practices

- Ensure simplicity in access to information
- Engage families in learning experiences
- Strengthen accessibility for ALL stakeholders

- Increase systemic effectiveness in all aspects of information systems

BENEFITS

KEY INITIATIVES

- Use technology FOR learning when they complete all or part of an activity using technology and move from consumers to producers of technology.
- Access to purposeful, aligned, safe, high quality digital learning content
- Adopt and produce educational materials that are accessible to ALL learners
- Engage students through the makerspace movement

- Support curriculum writing teams in adopting technology experiences to meet learning outcomes
- Provide professional development in multiple formats modeling personalized learning
- Training staff in research-supported practices to support learning in online and blended spaces
- Support teachers in building connections between makerspace education and content

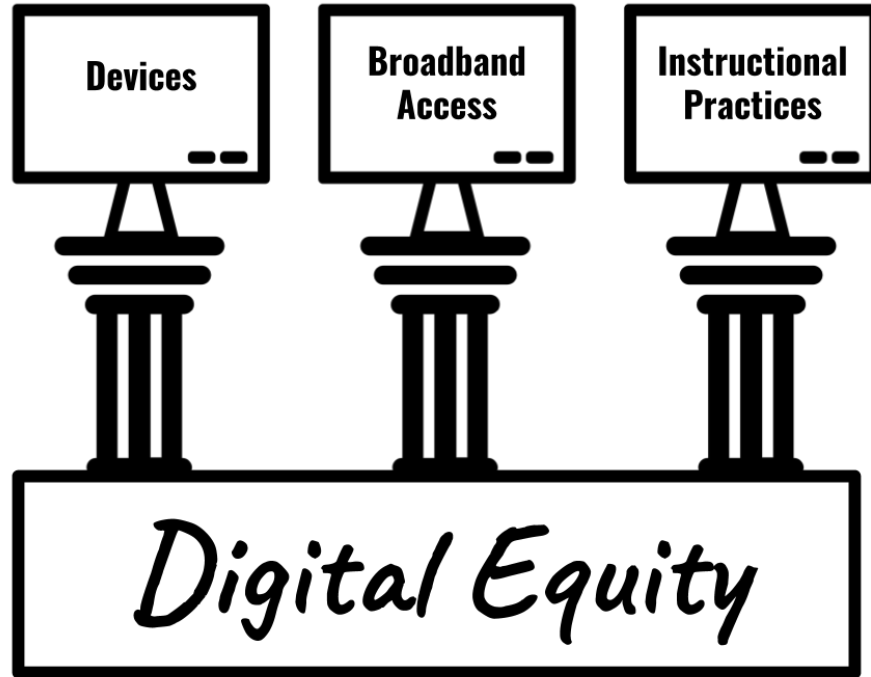
- Ensure simplified communications and information portals for families to access information about their child's learning
- Ensure technology-enabled learning is available for all students, everywhere, all the time
- Engage in meaningful and respectful communication
- Strengthen families' knowledge and skills to support and extend their children's learning at home and in the community

- Provide a technology ecosystem that best meets the District's strategic goals and teaching & learning instructional framework
- Provide infrastructure necessary for the use of evolving technologies
- Ensure emergency response and preparedness to IT security event
- Decrease the time between all work orders and job completion

KEY INITIATIVES



Digital Equity

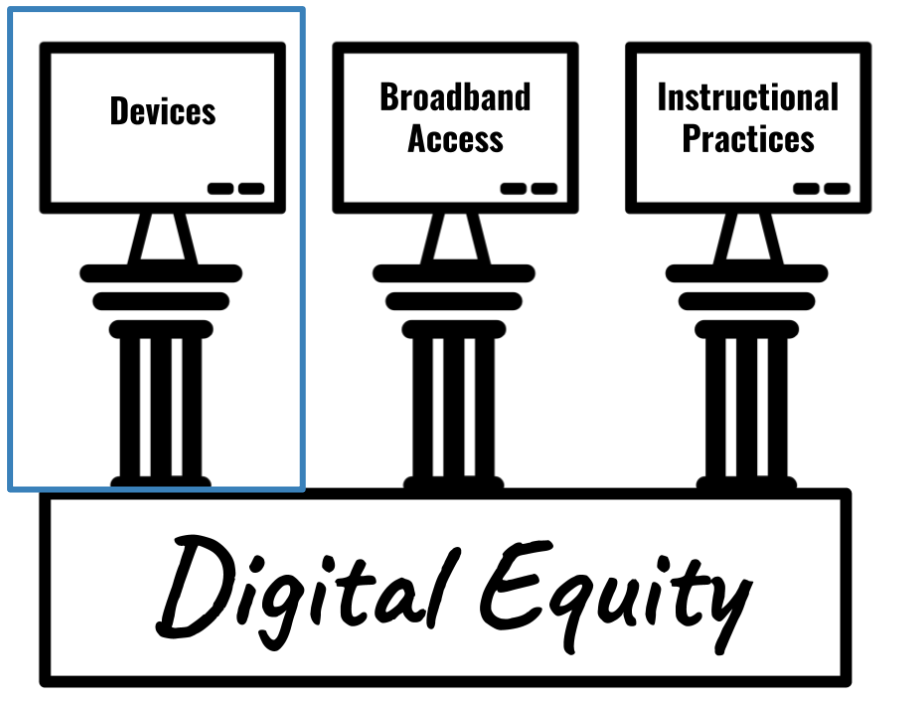


“Digital equity involves access to devices, access to broadband, and access to teachers qualified to offer technology-powered opportunities to drive learning in the classroom.”

- ***Closing the Gap: Digital Equity Strategies for the K-12 Classroom*** by Nicol R. Howard, Regina Schaffer, and Sarah Thomas



Devices



STUDENT DEVICES

Elementary

1:2 Ratio minimum

- Over 10 sites
- Over 3700 students
- 945 iPads
- 1145 chromebooks

Secondary

1:1 Ratio

- Over 5 sites
- Over 4500 students
- Over 4500 chromebooks

Key Initiatives:

- Provide equal access to resources to personalize learning.*
- Professionals will be supported individually and collaboratively by technology that connects them to data, content, resources, expertise, and learning experiences that enable and inspire more effective teaching for all learners.*

STAFF DEVICES

Mobile Devices

- ⚙ Over 160 iPad Pros
- ⚙ Over 600 Chromebooks
 - Asus
 - Lenovo

Standard Classroom

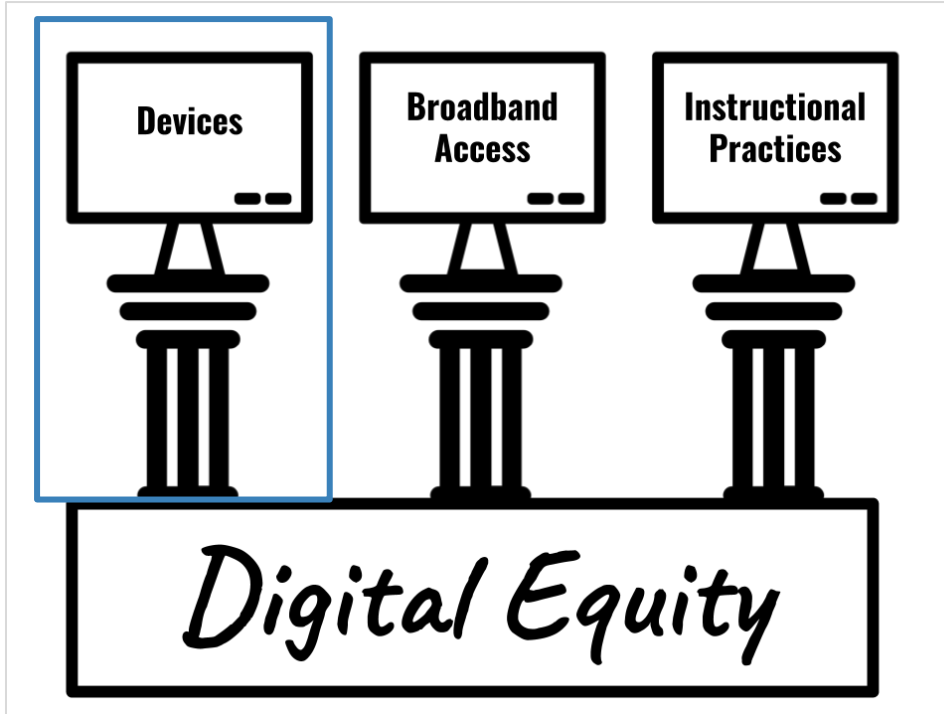
- ⚙ Mac mini
- ⚙ Keyboard, mouse, monitor
- ⚙ Speakers
- ⚙ Projector

Key Initiatives:

- ⚙ *Provide equal access to resources to personalize learning.*
- ⚙ *Professionals will be supported individually and collaboratively by technology that connects them to data, content, resources, expertise, and learning experiences that enable and inspire more effective teaching for all learners.*



Devices

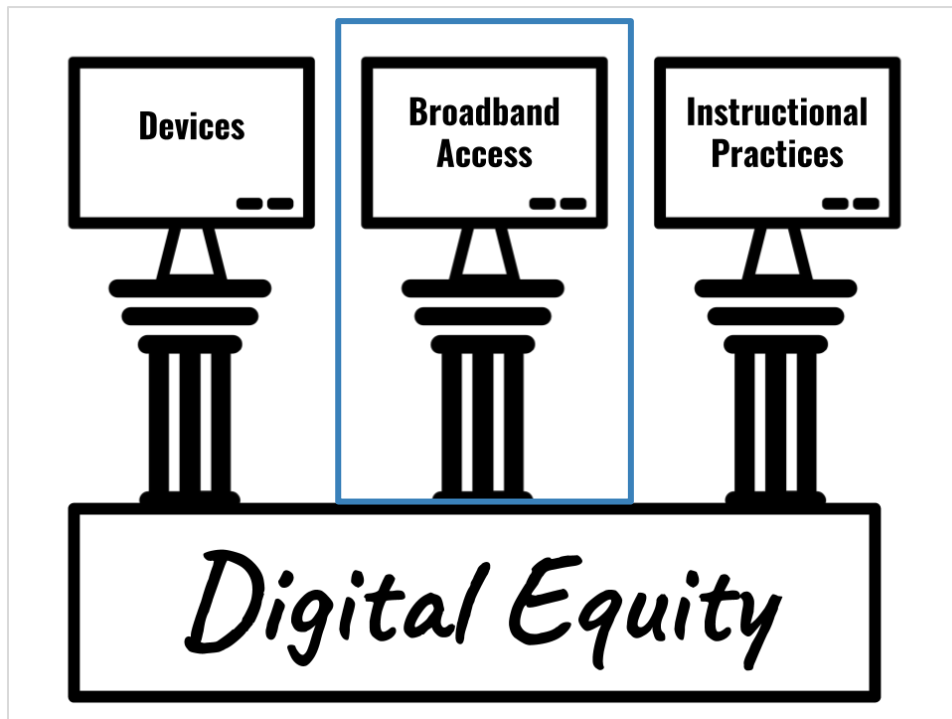


Pandemic Takeaways

- Providing durable student and staff mobile devices
- Providing mobile devices with internal performance specs that allow for accelerated tech use
- Replace - Recycle - Reallocate



Broadband



BROADBAND

Key Initiatives of Tech Plan:

- *Provide a technology ecosystem that best meets the District's strategic goals and teaching & learning instructional framework*
- *Provide infrastructure necessary for the use of evolving technologies*

Access In School:

- 10GB service at Data Center
- 1GB service at each district site

Access Outside of School:

[Broadband providers for the Mankato Area](#)

- Reduced rate options
 - Comcast
 - Consolidated Communications
 - Spectrum
 - PCs for People
 - AT&T Mobility

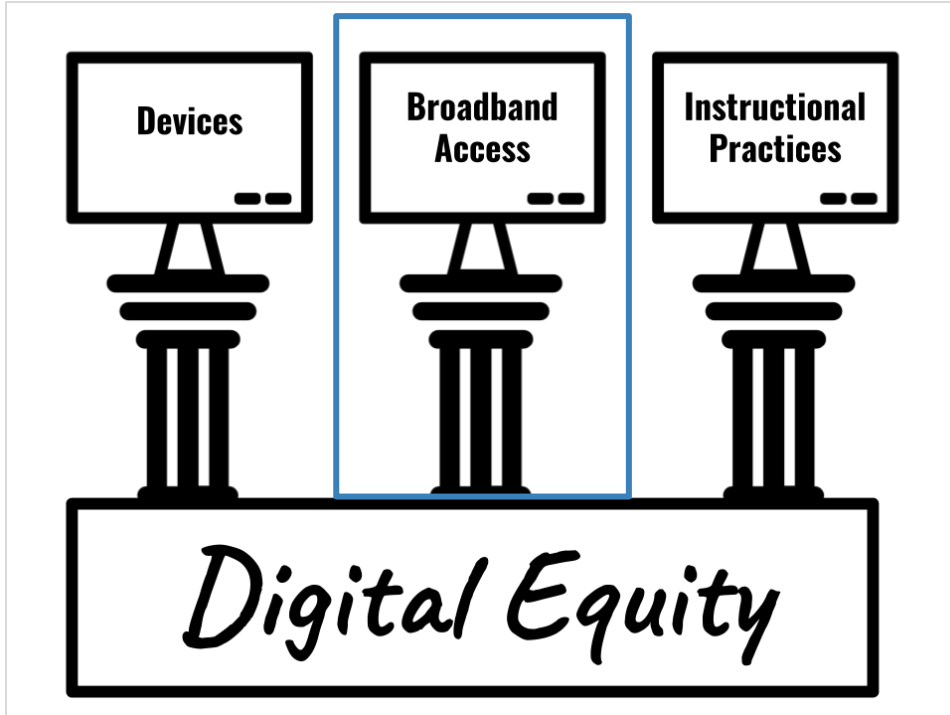
School social workers work with families for hotspot needs

- 165 district hotspots available to families
 - 115 T-mobile unlimited data hotspots
 - 50 Kajeet, limited data hotspots





Broadband

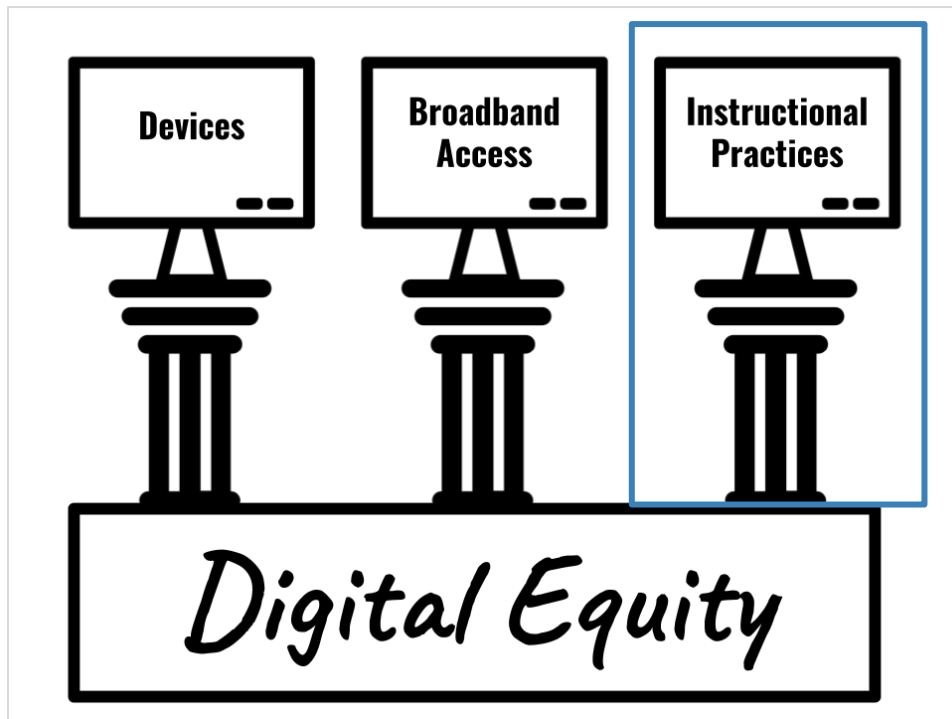


Pandemic Takeaways

- Students must have Internet access and access at appropriate speeds to support virtual learning
- Emergency Connectivity Fund - \$7.1 billion federal dollars to support connectivity

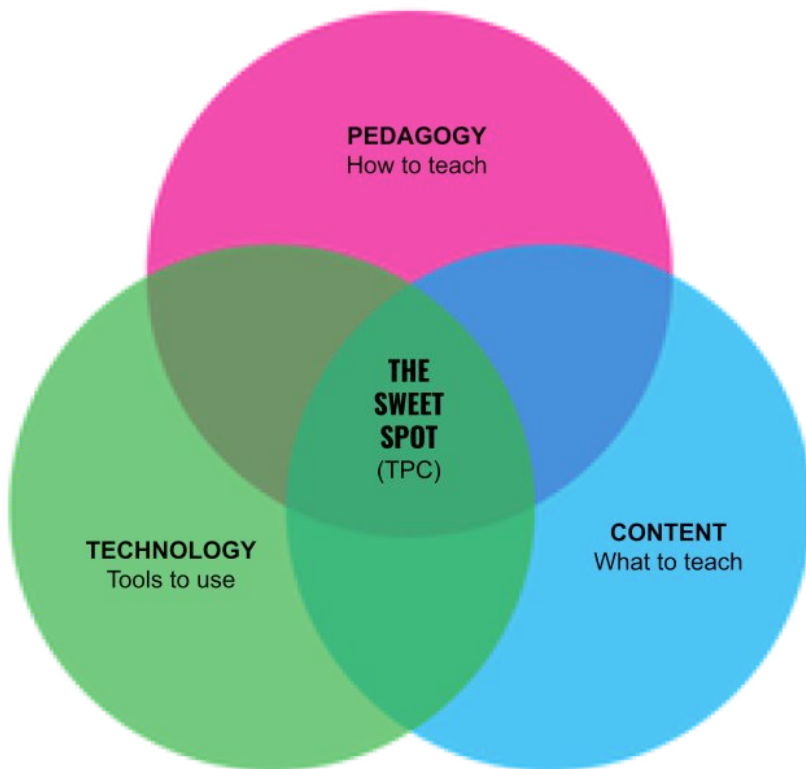


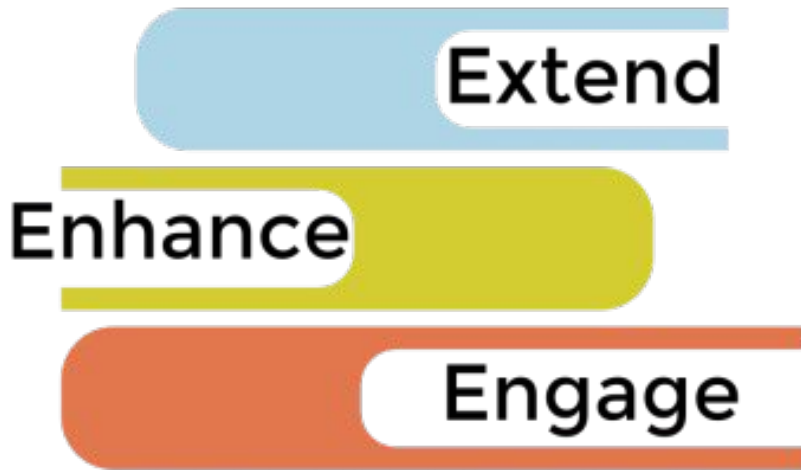
Instructional Practices





Instructional Practices



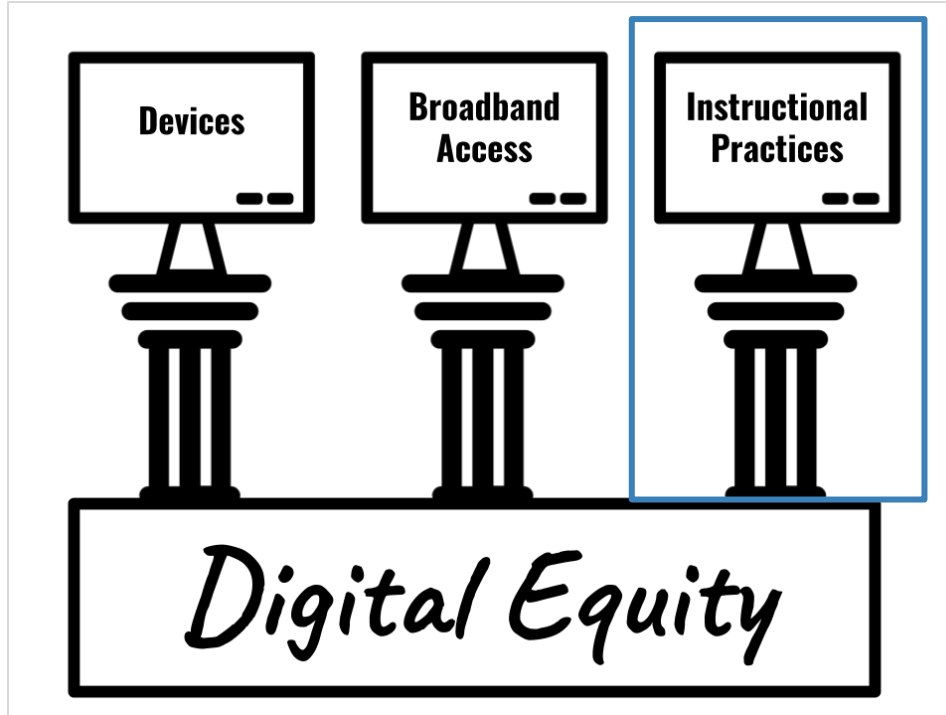


Key Initiatives of Tech Plan:

- Increase student learning and engagement through effective technology-enhanced teaching and learning.
- Increase engagement of all stakeholders using technology tools and resources.
- Increase technology skills and use to ensure college and career readiness for ALL students.
- Provide opportunities for students to recognize the rights, responsibilities and opportunities of living, learning and working in an interconnected digital world, and act and model in ways that are safe, legal and ethical.
- Strengthen families' knowledge and skills to support and extend their children's learning at home and in the community
- Support curriculum writing teams in adopting technology experiences to meet learning outcomes
- Provide continuous, hands-on technology training opportunities for all staff so that procedures and processes inherent within all work are executed in as effective a manner as possible.



Instructional Practices



Pandemic Takeaways

- LMS as a launchpad for digital learning
- Norming online learning options for MAPS students
- Virtual meeting software with advanced features such as breakout rooms, mute all, admit attendees, etc.
- Technology best practices and PD support for MAPS staff, students, families.



Infrastructure

Analyze - Plan - Test - Audit

- Firewall
- Network design: transitioning to site based firewalls
- [Google Workspace for Education PLUS](#)
 - New Age Based Settings in Google Admin
- [Coalition](#) - provide proactive cybersecurity 24/7 monitoring as well as cyber insurance
- Department Teaming:
 - Infrastructure team
 - Leadership team
 - Google Admin team



Thank you!

Questions?