

# MPCSD Technology Plan 2023 - 2026

## Goals Timeline

*As noted in the 2023 - 2026 MPCSD Technology Plan, this Goals Timeline is a companion document that displays each action item in the plan in a chart format.*

*Details about each action include the cost and a rough estimate of the steps required to achieve it. In addition, each action receives a priority label from 1 to 5, with one (1) being the highest priority and five (5) being the lowest priority.*

## Guiding Principles

Priority	Action Item	Cost	2023-24	2024-25	2025-26
3	<b>1.1</b> Develop a sustainable staff professional development program focused on technology and innovation with the input of site Tech Leads and the Technology and Innovation Committee.	Time and energy of involved stakeholders	Plan the program.	Implement the program	

## Classroom Technology

Priority	Action Item	Cost	2023-24	2024-25	2025-26
4	<b>2.1</b> When renewing our lease for staff iPads, we will poll staff to see if they desire this device or not	Possible savings of 25% of cost of staff iPad lease		Likely date of teacher iPad refresh	
1	<b>2.2</b> Conduct a classroom presentation device pilot, examining multiple solutions, both interactive panels and televisions, and determine what features are desired by teachers.	Estimated range of \$150- \$600K to replace aging SmartBoards in 107 classrooms.	Conduct pilot, installing panels in various classrooms	Evaluate performance and feature set of panels	Select standard (possible difference for elementary and middle school)

Priority	Action Item	Cost	2023-24	2024-25	2025-26
3	<b>2.3</b> Bring K-2 classrooms into alignment with presentation standards; explore true standardization of 3-5 classrooms	Further research required	Gradual replacement when opportunities arise	Gradual replacement when opportunities arise	Gradual replacement when opportunities arise
3	<b>2.4</b> Establish the same standards for classroom technology in Preschool and TK that are present in Kindergarten classes	Marginal	Slated for completion in August of 2023		
3	<b>2.5</b> Pilot 10 Vivi streaming devices in elementary classrooms.	Annual cost of \$1,590 for pilot; if Vivi boxes were installed in all classrooms, there would be a \$26,000 annual cost	Conduct pilot and compare Vivi performance and functionality to Apple TV. If Vivi outperforms, bring recommendation to Board	Dependent on outcome of pilot. Possible installation of Vivi boxes pending pilot results and Board approval	

Priority	Action Item	Cost	2023-24	2024-25	2025-26
2	<p><b>2.6</b> Research and pilot voice amplification solutions</p>	Unknown and depending on research	Conduct research on several solutions	Conduct pilot of promising solutions in multiple classrooms at various grade levels; bring	Dependent on outcome of pilot. Possible installation of integrated voice amplification pending pilot
3	<p><b>2.7</b> Establish an integrated “plug and play” classroom technology system that can be easily controlled by the teacher. A/V – including voice amplification – streaming, and document cameras would all work seamlessly through a control system</p>	Unknown. Research needed to understand the cost of a control system	Conduct research and plan a “model classroom” with all elements integrated with a control system	Create the model classroom(s) on a small scale and evaluate	

Priority	Action Item	Cost	2023-24	2024-25	2025-26
3	<p><b>2.8</b> Leverage LearnPlatform to monitor Ed Tech product usage, adhere to student data privacy laws, and create a teacher-facing and public-facing Ed Tech product library</p>	\$13,348.80 annual subscription	Implementation of Learn Platform by July, 2023; Ed Tech Product Library created by August, 2023	Analyze Ed Tech products for redundancy and pare down as needed; Analyze Ed Tech products for effectiveness, fidelity to established guidelines, and ROI.	Develop an Ed Tech Product adoption process.
1	<p><b>2.9</b> Collaborate with Student Services and Ed Services to ensure we have the appropriate technology to best meet the needs of students with IEP's, 504 plans, and English Learner status.</p>	Time and energy of involved stakeholders	Annual Goal	Annual Goal	Annual Goal

Priority	Action Item	Cost	2023-24	2024-25	2025-26
4	<p><b>2.10</b> Establish ratio viewing standards for MPCSD classrooms by conducting research and comparing recommendations to current state</p>	Unknown and dependent on outcomes of research	Research ratio viewing best practices and compare to current state	Depending on findings, pilot a second display in several classrooms; bring recommendations to Board	Dependent on outcome of pilot. Possible installation of additional displays in certain classrooms, pending Board approval
2	<p><b>2.11</b> Identify safe, cost-effective, and promising Artificial Intelligence tools for both students and teachers and pilot them on a small scale to evaluate their usefulness</p>	Dependent on tools and scale of pilot.			
1	<p><b>2.12</b> Complete evaluation of Chromebook (CB) Plus models in preparation for a new lease for our classified staff</p>	The total cost for the previous CB lease was \$55,041.30 spread over 3 years		Several Chromebook Plus models are currently being evaluated	Distribution of new Chromebook Plus devices to classified staff

## Digital Wellness and Family Engagement

Priority	Action Item	Cost	2023-24	2024-25	2025-26
1	<b>3.1</b> Establish standards for technology use for various age groups	Time and energy of involved stakeholders	Creation by June, 2024		
1	<b>3.2</b> Expand digital citizenship curriculum to 6th graders not enrolled in the Elective Wheel and to 7th and 8th graders	Time and energy of involved stakeholders	By August, 2023, engage middle school stakeholders in conversation around feasible options	By August 2024, establish middle school digital citizenship program for all students	
2	<b>3.3</b> Create a public-facing website that includes all of the Common Sense Media Digital Resources families can refer to in both English and Spanish	Time and energy of involved stakeholders	Creation of webpage by October, 2023		

Priority	Action Item	Cost	2023-24	2024-25	2025-26
1	<b>3.4</b> Implement JAMF Teacher at Hillview and identify a solution for Chromebooks at the elementary school level. These apps give the instructor the ability to preselect those apps, functions, and websites that are pertinent to a lesson, restricting anything else that would be unnecessary to instruction.	Time and energy of involved stakeholders	Determine configuration needs	Implementation by January 2025	
2	<b>3.5</b> When feasible, assign devices for 1:1 use in grades 3-5, or require log-ins, to allow us to trace red flag alerts to the user and provide intervention and education around healthy online habits.	Time and energy of involved stakeholders	5th grade 1:1 device assignment	4th grade 1:1 device assignment	3rd grade 1:1 device assignment
3	<b>3.6</b> Partner with both the middle school and the elementary schools to present a “Demystifying MPCSD Technology Tools and Platforms” to families in the fall of each year. In addition, at least one event in our Speaker Series will address a topical technology-related issue.	Time and energy of involved stakeholders	Annual Goal	Annual Goal	Annual Goal

## Infrastructure and Operations

Priority	Action Item	Cost	2023-24	2024-25	2025-26
1	<b>4.1</b> Identify a high quality, cost-effective patch management solution for Windows devices and servers	Approximately \$2,000	Implement management of Windows devices and servers by August of 2023		
3	<b>4.2</b> To reduce waste and ensure the security of confidential documents, pilot photocopier RFID cards at a one school site and compare qualitative and quantitative results against baseline data.	A nominal cost to print RFID cards/badges	Pilot use of RFID cards at a single site for one month and evaluate results.	Depending on results of pilot, scale RFID cards to additional or all sites.	
1	<b>4.3</b> Replace aging and out-of-production handsets with modern technology. Replace the call-management system with a more intuitive and manageable interface. Replace PRIs with VoIP.	From one-time cost of \$65,000 and ongoing costs of less than \$2,000, all the way up to \$90,000 annually	Complete research on solution and bring recommendation to Board	Installation of new system and handsets no later than summer of 2024	

Priority	Action Item	Cost	2023-24	2024-25	2025-26
2	<p><b>4.4</b> Identify a replacement solution for POTS lines that is resilient in the face of power outages and regional emergencies</p>	<p>\$14,940 (\$11,970 one-time cost, \$2,970 ongoing annual cost)</p>	<p>Piloting a solution in June, 2023. Possible recommendation to Board</p>	<p>Installation of new hardware, dependent on pilot and Board decision.</p>	
3	<p><b>4.6</b> Engage vendors in the assessment of A/V equipment in district performance venues and request quotes for upgrades</p>	<p>Unknown and dependent on assessment and quotes</p>	<p>Engage at least three vendors to walk our sites, and with input from performing arts staff and site leadership, determine needs. Bring recommendation to Board</p>	<p>Upgrade performance spaces pending Board approval</p>	

Priority	Action Item	Cost	2023-24	2024-25	2025-26
3	<b>4.7</b> In collaboration with Ed Services, research an elementary LMS that would help us meet the needs of all our learners and prepare us well for any future disruptions to in-person education	Dependent on solution; costs are often around \$10/per student	Follow direction of LCAP	Follow direction of LCAP	Follow direction of LCAP
2	<b>4.12</b> Determine our level of preparedness for a disruption to in-person learning	Unknown	Engage in Leadership Team tabletop exercise; bring report and recommendations to Board		
2	<b>4.13</b> Evaluate our work order system against industry standards, and if warranted, explore other solutions that would better meet the needs of our end users.	Dependent on evaluation; if we were to choose another platform, it could cost more or less than our current system.		Evaluate current system and explore other solutions.	Compare solutions prepare to transition to a new system, should the need arise.

Priority	Action Item	Cost	2023-24	2024-25	2025-26
2	<p><b>4.14</b> Evaluate and implement solutions that allow all staff, regardless of their device standard, to print to a photocopier or printer.</p>	Time and energy of involved stakeholders		Evaluate and choose a solution.	Implement the solution.

## Safety and Security

Priority	Action Item	Cost	2023-24	2024-25	2025-26
2	<b>5.1</b> (formerly 4.13) Ensure an accurate inventory of all classroom assets to better capture life cycle data and plan for the future	Time and energy of Technology Department staff.		Engage in Hardware Asset Management (HAM) Audit	Implement new HAM practices
1	<b>5.2</b> In response to the Guidepost Safety Assessment, better secure our campuses using Visitor Management software that screens all visitors and provides clear and visible badging.		Secure contract with a Visitor Management Software Provider.		
1	<b>5.3</b> The recent PowerSchool Data Breach of December 2024 has made us re-examine our data storage practices. We will undertake an audit of all our systems that house student data and ensure that we only store data that is required by statute. In addition, we will reach out to all our vendors and have them sign a Data Privacy Agreement (DPA).			Evaluate current systems that house student data	Work with vendors to secure a DPA.

Priority	Action Item	Cost	2023-24	2024-25	2025-26
3	<b>5.4</b> (formerly 4.5) Research a more modern and comprehensive paging, bell, and clock system, and where possible, integrate with other goals, such as classroom voice amplification, integration, and emergency digital signage	Unknown, and likely very costly	Identify several solutions, see demos and proof concept	Choose a single solution that aligns with other goals, bring recommendation to Board	Upgrade paging, bell, and clock system, pending Board approval
5	<b>5.5</b> (formerly 4.9) Pending results of our Guidepost Safety Assessment, move forward with some or all previously identified camera locations	Up to \$97,916.00	Dependent on safety assessment results.		
2	<b>5.6</b> Engage in a small-scale project for Access Control to select rooms and spaces, including our Multipurpose rooms that are used by outside vendors. Results of this small-scale project will inform us on the ease of use and deployment of the solution were we to fully scale to protect, say, all exterior doors.			Complete small scale project and evaluate.	Decide on how and when to scale.

Priority	Action Item	Cost	2023-24	2024-25	2025-26
1	<b>5.7</b> (formerly 4.10) Implement a number of enhancements that will improve our cyber security posture	Approximate ly \$75,000 annually	Pending Board approval,imp lementation of several enhancemen ts		
2	<b>5.8</b> (formerly 4.11) Develop a program for additional training when users reach a certain level of “risk factor,” as defined by our KnowBe4 phishing campaign statistics.	Time and energy of Technology Department staff.	Plan program and structure, including establishing thresholds and selecting trainnig materials.	Implement pilot of the program.	
3	<b>5.9</b> Develop and socialize both a Disaster Recovery Plan (DRP) and a Business Continuity Plan (BCP). A DRP provides those steps and the time required to bring all IT systems back online in the instance of a critical event. A BCP outlines those steps an organization will need to take to keep critical functions running in the instance of an emergency.	Time and energy of Technology Department staff.	Develop draft DRP.	Finalize and socialize DRP.	Develop draft BCP.