

# San Carlos School District Three-Year Tech Plan Rollout

Tech Plan	2015-16	2016-17	2017-18	2018-19	Notes:
<b>1. All students will confidently employ technology as a tool for learning, responsible communication, and monitoring achievement.</b>					
<b>1a. Middle and Intermediate School One-to-one access</b>					
<b>- Purchase Chromebooks and Carts</b>					
Middle Schools	4 Carts and Chromebooks purchased for 2015-16	Add Carts and Chromebooks	Add Carts and Chromebooks	Add Carts and Chromebooks to get to 1 to 1 access	3 Year Goal - 32 Carts (Cart with 36 Chromebooks)
Upper Elementary Schools	6 Carts and Chromebooks purchased for 2015-16	Additional Carts and Chromebooks for Arroyo	Additional Carts and Chromebooks for Dartmouth	Add Carts and Chromebooks to get to 1 to 1 access	3 Year Goal - 24 Carts (Cart with 30 Chromebooks.) *6 Carts purchased in 2015 to prepare for opening of Arroyo.
<b>- Chromebook loaner and internet access</b>					
Internet Access for 10 to 20 students	Pilot program	Continue program	Expand program if warranted	Expand program if warranted	Internet service = \$120/year/family through special sponsored programs
<b>1.b. Elementary School One-to-one Chromebooks and 2 to 1 iPads</b>					
- Purchase Chromebooks and Carts	4 Carts and Chromebooks purchased for 2015-16	Additional Chromebooks and Carts	Additional Chromebooks and Carts	Add Chromebooks and Carts to get to 1 to 1 access in 3rd Grade	3 Year Goal- 20 Carts (Cart with 30 Chromebooks) for 2nd and 3rd grades
- Purchase Classroom iPads		Add iPads	Add iPads	Add iPads	3 Year Goal 240 iPads
<b>1c. Student data management and access.</b>					
- Adopt and implement Illuminate Data Management System	Rollout Illuminate beginning of school year for students, teachers, and parents.	Ongoing support and PD	Ongoing support and PD.	Ongoing support and PD.	Evaluate switching Student Information System from PowerPoint to Illuminate to consolidate services.
- Online Repository for Student Portfolios	Identify and pilot repository services	Adopt online repository	Ongoing support and PD	Ongoing support and PD	Repository platform needs to be determined.
<b>1.d. Project Based Personalized learning as a core component of student educational experience.</b>					
- One Tech Support Staff member responsible for each school	One tech support staff member per school established Fall 2015.	Evaluate effectiveness of staff support model and make recommendations for moving forward.	Additional support person for Dartmouth School?		
- Implement a student single password sign on system	Piloting Clever, a free single sign-on platform along with Google Single Sign-on.	Establish Single Sign-On strategy	Evaluate and revise	Evaluate and revise	
<b>1.e. Develop a program where experts from industry and the community.</b>	In process of planning for first cohort in collaboration with PTA Coordinating Committee.	Continue program	Evaluate and revise	Evaluate and revise	
<b>1.f. Develop course of study of Digital Citizenship units.</b>	Develop draft of Digital Citizenship curriculum based on Common Sense Media Materials and present to principals in April, 2016.	Implement Digital Citizenship Curriculum	Evaluate and revise	Evaluate and revise	
<b>1.g. Students will demonstrate mastery of technology operations and concepts.</b>	Develop draft of scope and sequence for technology operations and skills and present to principals in May, 2016.	Implement Tech Operations and Concepts scope and sequence.	Evaluate and revise	Evaluate and revise	
- Expand web-based typing instruction to include grades 2 through 5.	Introduce web-based typing personalized learning program mid way through Second grade.	Add Fifth Grade to web-based typing personalized learning program.	Evaluate efficacy of 2nd through 5th grade typing strategy		
	<b>2015-16</b>	<b>2016-17</b>	<b>2017-18</b>	<b>2018-19</b>	
<b>2. Staff will seamlessly infuse technology as part of their instruction and student learning.</b>					
<b>2.a. Implement personalized learning strategies for individualizing student learning and assessment.</b>					

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- Conduct a needs assessment and pilot personalized learning programs in targeted subject areas and grade levels.	Pilot and assess personalized learning programs in collaboration with teachers and staff. Make recommendations for adoptions in 2016-17.	Implement and assess student learning outcomes for adopted personalized learning platforms.	Continue to assess and adopt personalized learning platforms	Continue to assess and adopt personalized learning platforms	
- Develop protocols for assessing efficacy of personalized learning platforms.	Develop Personalized Learning evaluation tool in partnership with Mastery Design Collaborative and iHub Project.				iHub and Mastery Design Collaborative are funded by grants received by district.
<b>2.b. Establish responsive, robust staff professional development programs and technology support networks.</b>	Fully implement Tech Support ticketing and management system.				
- Implement a District wide technology professional development plan .	Administer Staff Tech survey in January 2016. Develop a Technology professional development plan to implement in 2016-17 school year.	Implement Tech PD plan. Administer Staff Tech survey and redesign plan for subsequent years.			
- Develop a strategy to provide professional growth incentives for staff to pursue technology certificates and professional development.		Interface with District Evaluation Committee to coordinate professional growth initiatives.	Identify, encourage, and support staff to pursue Technology PD opportunities.	Identify, encourage, and support staff to pursue Technology PD opportunities.	
	<b>2015-16</b>	<b>2016-17</b>	<b>2017-18</b>	<b>2018-19</b>	<b>Notes:</b>
<b>3. All District learning environments will have robust technology infrastructures and flexibility for future growth and technological developments.</b>					\$500K allocated for entire district for tech-related construction (of which \$200K is already committed)
<b>3.a. Establish systems and policies that ensure student safety and privacy.</b>					
- Review all contracts, research studies, and MOUs against District adopted protocols and Board policies.	Pilot Student Data Privacy Manager service to track Student Privacy compliance of personalized learning platforms.	Continue to monitor and update policy privacy compliance.	Continue to monitor and update policy privacy compliance.	Continue to monitor and update policy privacy compliance.	
- Upgrade network Firewall and Content Filter to enterprise class solution.	Meet with vendors and procure bids for Firewall	Purchase and deploy Firewall	Renew Firewall licensing and upgrade services	Renew Firewall licensing and upgrade services	District network infrastructure in need of significant upgrade in Firewall protection capacity and capabilities.
- Adopt a web-based web-filtering platform for school and home use of district computing devices	Pilot Securly and adopt 2015-16.				
- Upgrade Firewall to enterprise level service with greater bandwidth capability.	Review firewall options and recommend purchase for 2016-17.	Purchase and deploy Firewall	Renew Firewall licensing and upgrade services	Renew Firewall licensing and upgrade services	
- Purchase server to house firewall services.	Identify server to purchase	Deploy Firewall			
<b>3.b. Plan for and upgrade capacity of data networks and wireless capabilities.</b>					
- Plan for network switch, wiring, racks, and wireless access point purchase and installation at remodeled and new school sites.	FMP for Arroyo	FMP for TL and Dartmouth			
- Upgrade main network routing switch at City Hall.	Review routing switch options and recommend purchase for 2016-17.	Deploy network routing switch at City Hall			This switch will reach end of life beginning of next school year.
- Renew Meraki Wireless Access Points for 5 years		renew 40 AP licenses	renew 75 AP licenses		We pay for a 5 year license for Meraki wireless access points (AP). In the next two years our initial AP licenses will expire and need to be renewed.
<b>3.c. Outline timeline and hardware/wiring upgrades for increasing Internet bandwidth from 1 Gigabits per second to 10 Gigabits per second.</b>	Continue to plan and purchase equipment compatible with an eventual upgrade to 10 Gbps network bandwidth.			Evaluate need for 10Gbps and include in next iteration of Tech Plan.	It is unclear when it will be appropriate for k-8 schools to move to 10Gbps capabilities. This will require new ethernet cabling in Elementary Schools. Not anticipated before 2019-20 school year.
<b>3.d. Transition Library spaces to flexible, student-friendly media and learning spaces.</b>					
- Attend conferences and plan visits to schools/institutions with exemplary Media Centers.	Librarians attend local meetings and conferences.	Plan and Budget for site visits and conferences.	Plan and Budget for site visits and conferences.		
- Develop plan for rethinking libraries at the Elementary, Intermediate and Middle school levels.	Establish quarterly Library - Tech Team meetings.	Develop plans for Elementary, Upper Elementary, and Elementary Schools.	Implement Library/Media Center plans for Dartmouth and Tierra Linda.		

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<b>3.e. Develop and outline overall plan and budget for replacement and repair of all district computers and tech equipment.</b>					
- Where appropriate, centralize and coordinate technology hardware and software purchases.	Investigate leasing Apple hardware and subscribing to printer maintenance and support contract.	Adopt leasing and maintenance contract if cost effective.			
Upgrade iMacs in Brittan Acres and White Oaks Labs to provide greater flexibility as a learning environment.	Investigate leasing macbooks for labs.	Upgrade labs from iMacs to MacBooks			Computers in labs at BA and WO have reached end of life. Repurpose as Library lookup stations. Historically paid through site funds.
Yearly Teacher laptop refresh	Investigate leasing teacher MacBooks.	Refresh 20 MacBooks. Repurpose units being replaced.	Refresh 20 MacBooks. Repurpose units being replaced.	Refresh 20 MacBooks. Repurpose units being replaced.	Move to schedule of replacing 20 laptops per year on need basis. MacBooks expected to have minimum of 4 years of usage by teachers. This is a continuation of our annual budgeting for laptop replacements.
Upgrade PowerSchool (Student Information System) server		Purchase and upgrade server.			Existing local server hosting PowerSchool near end of life and is at limit of storage capacity.