

Draft of San Carlos School District Three-Year Technology Plan 2016 to 2019

The San Carlos School District Strategic Plan recognizes that today's students will enter a world of work and social interactions that will be very different from those of their parents. In order to prepare them for the future and yet undefined careers, it is imperative to consider and address a number of emerging trends that provide the context and conditions for their future success. There is great potential through developments in technology and social networking that give us the opportunity to create new forms of collaboration and communication systems to change the way educators, students, and community members interact. This Technology Plan aims to implement a comprehensive, district-wide Technology Plan outlining learner outcomes and effective use of technology for teaching and learning, data collection and analysis, and district-wide operations. The Technology Plan articulates continued planning and support for a robust infrastructure, capacity for one-to-one computing, a platform for district-wide collaboration and sharing, and sufficient training for staff, students, and parents in its use.

- 1. All students will confidently employ technology as a tool for learning, responsible communication, and monitoring achievement.**
 - a. Middle School and Upper Elementary School students will have one-to-one access to mobile computing (Chromebooks) in class and at home.
 - i. Establish a 3-year purchase and replacement cycle for Chromebooks. Repurpose decommissioned Chromebooks.
 - ii. Establish a Chromebook loaner and internet access program to guarantee and plan for home mobile computer and internet access for students lacking services.
 - b. Elementary School Students will have a minimum of one-to-two access to tablets and/or mobile computing in class. Students in grade Three will have one-to-one access to mobile computing. Students in Grade Two will be introduced to mobile computing by mid year.
 - i. Establish a 3-year purchase and replacement cycle for iPads and other devices in PK through Second Grade environments.
 - c. Students, as well as Parents and Teachers, will have access to data and will reflect on and curate evidence of their learning and technological literacy.
 - i. All students (and parents) will have access to student achievement data and gradebook data through the Illuminate Data Management system.
 - ii. Identify and deploy an online repository system for student portfolios.

- d. All students will experience technology-infused Project Based Personalized learning as a core component of their educational experience.
 - i. Establish one Tech Associate per school site support model to facilitate implementation of tech-infused learning and guarantee ability to respond to tech needs in a timely fashion.
 - ii. Implement a student single password sign-on system to access web-based learning tools and personalized learning websites.
- e. Develop a program where experts from industry and the community can contribute to student learning through face-to-face visits and/or distance education opportunities with video conferencing and other web-based services.
- f. Students engage in a course of study of Digital Citizenship units as relates to understanding human, cultural, and societal issues related to technology and practicing legal and ethical behavior.
 - i. Develop scope and sequence of Digital Citizenship topics for grades K through Eight.
- g. Students will demonstrate mastery of technology operations and concepts.
 - i. Develop scope and sequence of Technology Skills and Concepts for grades K through Eight.

2. Staff will seamlessly infuse technology as part of their instruction and student learning.

- a. Teachers in grades K through 8 will implement personalized learning strategies for individualizing student learning and assessment as outlined in the SCSD strategic plan.
 - i. Conduct a needs assessment and pilot personalized learning programs in targeted subject areas and grade levels.
 - ii. Develop protocols for assessing efficacy of personalized learning platforms against goals of Strategic Plan and learning outcomes.
- b. Establish responsive, robust staff professional development programs and technology support networks to guarantee the seamless implementation and realization of tech-infused 21st Century Learning
 - i. Implement a District wide technology professional development plan to support 21st Century teaching and learning that models the professional learning experiences we expect teachers to implement for their students.

- ii. Develop a strategy to provide professional growth incentives for staff to pursue technology professional development opportunities and certifications.

3. All District learning environments will have robust technology infrastructures and flexibility for future growth and technological developments.

- a. Establish and refine systems and policies that ensure student safety and privacy of personal information/data.
 - i. Review all contracts, research studies, and MOUs against District adopted protocols and Board policies.
 - ii. Upgrade network Firewall and Content Filter to enterprise class solution to safeguard against malware, viruses, objectionable websites and popups.
- b. Plan for and upgrade capacity of data networks and wireless capabilities in reference to the Facilities Master Plan and the construction of new schools and remodeling of existing facilities.
- c. Outline timeline and hardware/wiring upgrades for increasing Internet bandwidth from 1 Gigabits per second to 10 Gigabits per second.
- d. Transition Library spaces to flexible, student-friendly media and learning spaces with corresponding technology enhancements (mobile computing, higher end computing stations, video production spaces, electronic delivery of databases and fiction and nonfiction works, etc.)
 - i. Plan visits to schools/institutions with exemplary Media Centers.
 - ii. Develop plan for rethinking libraries at the Elementary, Upper Elementary and Middle school levels to incorporate appropriate roles as media centers.
- e. Develop and outline overall plan and budget for replacement and repair of all district computers and tech equipment (printers, monitors, projectors, document cameras, etc.) in classrooms, offices, libraries, labs, etc.
 - i. Where appropriate, centralize and coordinate technology hardware and software purchases in classrooms, schools and district offices through the Technology Team.