



SANTA MONICA-MALIBU UNIFIED SCHOOL DISTRICT

# Board Update: Digital Learning Program

*Ruthy Mangle, Director of Information Services*  
*Bertha Roman, Director of Education Technology*  
*January 17, 2019*



# Purpose

- Address Board members' request for an update to the Digital Learning Program
- Address Board members' previous questions in relationship to the Digital Learning Program

# W H Y Technology in the Future Ready Classroom

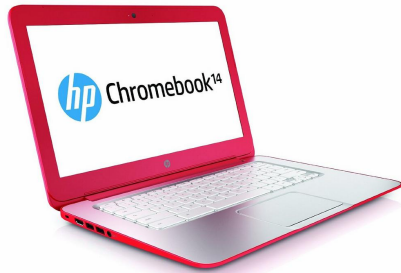
- Technology impacts almost every part of student life today.
- Allows for education to extends beyond the classrooms walls, equitable technology can provide 24/7 learning for all students.
- Facilitates a collaborative environment.
- Meets the needs of all learners.
- New Technologies = Instructional Tools



# What is a Chromebook?



# Instructional Tools



An abstract geometric logo on the left side of the slide. It consists of a vertical stack of various colored rectangles (green, blue, red, grey) and triangles, some of which are overlapping and tilted at different angles, creating a complex, layered visual effect.

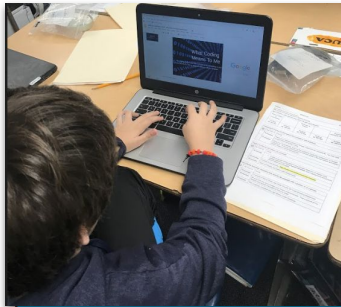
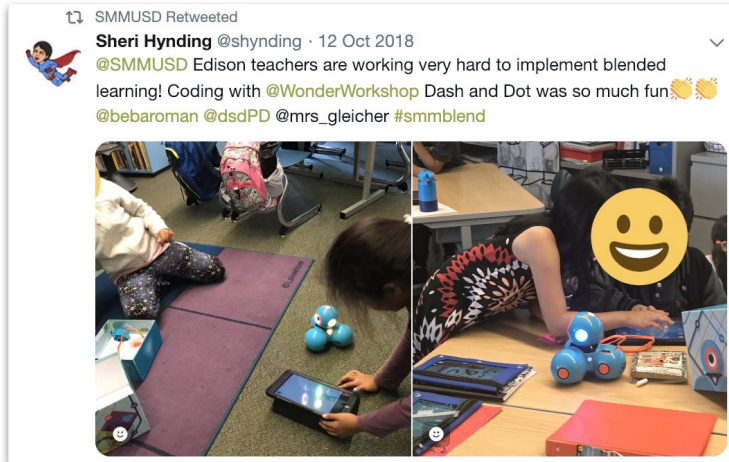
# Supporting Instructional Models: Blended Learning

# Supporting Instructional Models: Project Based Learning



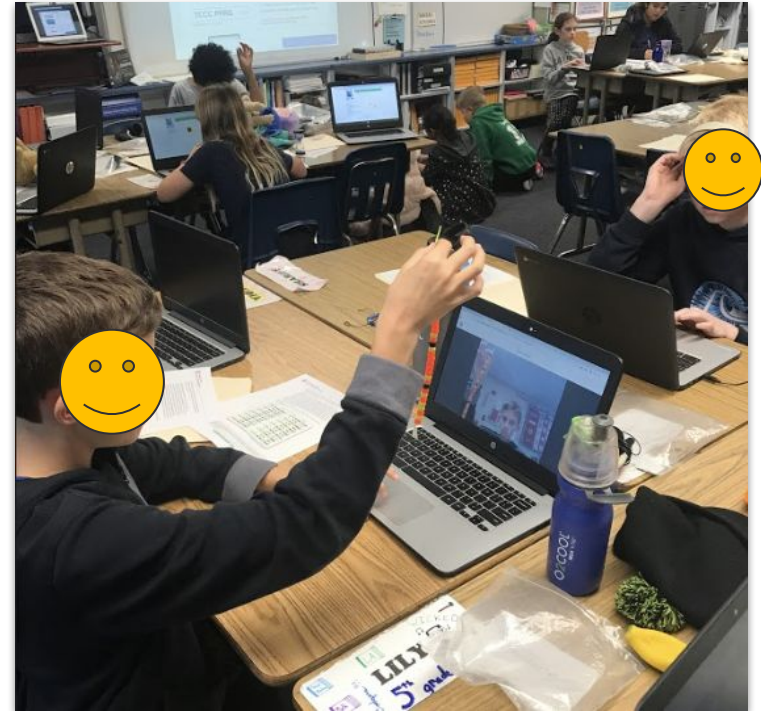


# Supporting Curriculum: Computer Science/Coding



HOUR  
OF  
CODE

Elementary  
Exploration







# Supporting Curriculum: Computer Science



## Gateway:

- Automation and Robotics
- App Creators(Coding)
- Science and Technology



Elementary  
Exploration

Middle  
Exposure

# Supporting Curriculum: Computer Science

**College Credit** SANTA MONICA COLLEGE PALM BEACH

**CS3**

- **CS 3, INTRODUCTION TO COMPUTER SYSTEMS**
- Transfer: UC, CSU • **Prerequisite: None.**
- This is a beginning course intended for students who plan to take additional computer programming or computer science courses. Emphasis in the course is divided between a broad survey of the field of computer information systems and the acquisition of computer skills necessary for more advanced classes. Such skills would involve use of the operating system, file management techniques, use of an editor, and an introduction to programming.

**CS15\***

- **CS 15, VISUAL BASIC PROGRAMMING**
- Transfer: UC, CSU • **Prerequisite: CS 3.**
- This introductory course covers basic programming constructs and techniques using VB.Net. Students will learn how to plan, create and debug code based on Object Oriented Programming design and analysis techniques. Topics covered include Data Types, Variables, Decision Statements, Loops, Arrays, Input/Output, and basics of Object Oriented Programming using Classes and Objects.

**CS50\***

- **CS 50, C PROGRAMMING**
- Transfer: UC, CSU • **Prerequisite: CS 3.**
- This course will include a review of the concepts of structured programming, error checking, sorting, searching, data types, advanced array handling methods, pointers, and data structures. Applications in business, mathematics, and science will be discussed.

**CS80\***

- **CS 80, INTERNET PROGRAMMING**
- Transfer: CSU • **Prerequisite: CS 3.**
- This course surveys the many technologies that are used to program multilayered, client/server, database-intensive, Web-based applications. Topics include: XHTML, Cascading Style Sheets (CSS), JavaScript, Extensible Markup Language (XML), RSS, Ajax, Rich Internet Applications, Web servers, databases, MySQL, PHP, Ruby on Rails, Active Server Pages (ASP), JavaServer Faces, and Web Services.

**LAHIT** LOS ANGELES HIGH IMPACT

Explore options to expand Computer Science and/or AP Computer Science Courses

Elementary  
Exploration

Middle  
Exposure

High School  
Experience



# Digital Learning Program Goals:

1. Integrated Instructional Technologies for all students and staff
2. Digital Citizenship Curriculum and Family Engagement
3. Increase Device to Student Ratio
4. Professional Development and Instructional Support
5. Infrastructure and Technical Support



# Digital Learning Program Timeline:

Devices per grade level:

2018-2019: Grades 7, 9, 11 \*

2019-2020: Grades 5, 6, 7, 9, 11

2020-2021: Grades PreK-5, 6, 9

\*Malibu MS/HS Devices for all 6-12th  
grades students in 18-19.

# Future Budget Allocations

- 2019-2020 ~~\$2,600,000~~ \$2,100,000
  - Chromebooks (5, 6, 7, 9, 11)
- 2020-2021 \$2,700,000
  - iPads(PreK, TK, K) Chromebooks(1, 2, 3, 6, 9)
- 2021-2022 \$1,700,000
  - Chromebooks (3, 6, 9)
- 2022-2023 \$1,700,000
  - Chromebooks (3, 6, 9)
- 2023-2024 \$2,300,000
  - iPads(PreK, TK) Chromebooks(1, 2, 3, 6, 9)
- 2024-20245 \$2,100,000
  - iPads(K) Chromebooks(3, 6, 9)





# Stakeholder Discussions

- Board of Education
- Senior/Full Cabinet
- Principals
- SMMCTA Leadership/Site Rep Meeting
- PTA Council (To Be Scheduled)
- School Site Leadership and Staff
  - *SAMOHl Instructional Leadership Team*
  - *MHS All Staff and Leadership*
  - *LMS 7TH Grade Teachers*
  - *JAMS 7TH Grade Teachers (To Be Scheduled)*
  - *OLYMPIC Site Leadership*
  - *SMASH Leadership*
- EdTech Jedi's, Librarians
- District Advisory Committees (HAS Jan 28, SEDAC Feb 5)





# Professional Development and Instructional Support: Progress

- Common Sense Media Certification:  
Digital Citizenship and Digital Literacy
  - Common Sense Media Schools-Will Rogers Elementary
  - 102 Certified Teachers: SAMOHI, MHS, JAMS, Rogers
- Promote Incentives for teachers to achieve Google Certified Teacher Level 1
- Provided Malibu Staff with 2.5 hours of Chromebook Basics, Digital Citizenship, SAMR Model Integration

## Working on:

- Support Website for Staff and Students
  - FAQs and Tutorials
- Draft Presentation/Video Introduction for Students



# What We've Done

- Site visits to various school districts with existing 1:1 Chromebook environments.
  - *Learned from their best practices and challenges for deployment, implementation and support.*
- Met with vendors to ensure they meet our tech standards of security and expectation of white glove services. (SetUp of chromebook that includes asset tagging, security, District Wifi.)
- Secured state of the art filtering system.



# What We've Done (cont.)

## ■ Filtering

- Criteria:
  - *A solution that would filter students' web access from home or school.*
  - *The ability to apply different policies to different user groups*
  - *The ability to use websites like YouTube without compromising student safety.*
  - *Teachers can authorize specific videos for students to watch on their devices, while blocking access to the rest of YouTube.*
  - *the ability for IT staff to easily block or unblock sites as necessary*



# Actions Taken (cont.)

## ■ Wireless Access

- On Campus
  - *Wireless access at all SMMUSD sites.*
- Off Campus
  - *City of Santa Monica: <https://citywifi.smgov.net/>*
  - *Malibu: Local Libraries and Bluffs Park*

# Questions and Feedback?

