



Educational Technology Update

Systems Overview

- Our classrooms remain state of the art with multi-media and collaboration hardware/software
- The 1 to 1 iPad deployment has been highly effective
- iPads support the use of the Canvas LMS
- Online components of new curriculum adoptions are up and running and being utilized

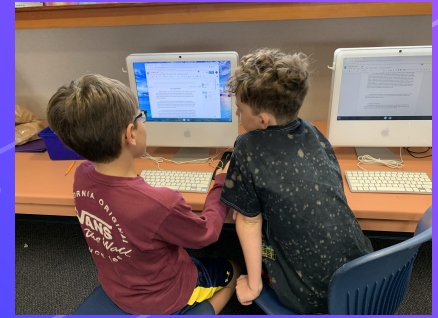


Technology Integration

- Technology is used to augment learning opportunities or in cases where the learning taking place would not be possible without a device (i.e. concepts involving 3D or dynamic systems (The Water Cycle, The Solar System, Cardiac Function, Interactive Non-Fiction, etc.)
- Technology is addressed in Common Core Standards in both Reading and Writing
 - Ex. Anchor Standards K-8 Writing (K-5, 6-8)
 - Progression along a Single writing standard in K-8
- Our teachers authentically integrate technology across all disciplines

Current iPad Use in 5th-8th Grade

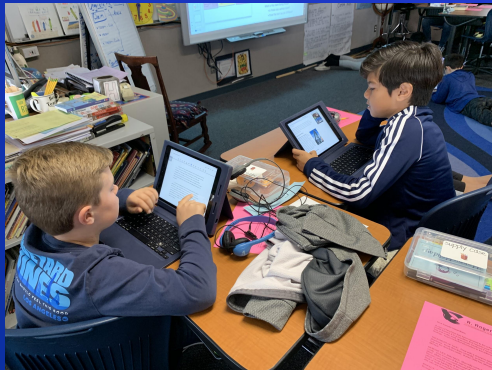
- Collaborative work: (joint authored projects, discussions, peer reviews, screen casting with whole class discussion)
- Learning Management (assignment management, student-teacher communication, teacher feedback)
- Learning Management with connections to adopted online curriculum (Foss, Everyday Math, Open Up, Zingy Learning, Study.com, No Red Ink)



- Access to primary source documents
- Ability to import articles and diagrams, annotate them, and submit in response to assignments

Example: Notability

- Research
- Writing/Publishing/Video Authoring
- iReady practice
- SBAC testing



Current iPad Use 3rd-4th Grade

- Collaborative work: (joint authored projects, discussions, oral discussions from online content, peer reviews, casting with whole class discussion)
- Access to adopted online curriculum (Foss, Everyday Math)
- Access to primary source documents
- Research
- Writing/Publishing
- iReady diagnostic and practice
- SBAC testing
- Access to teacher assembled materials (text, visuals, videos) specific to an assignment or content area.

-Example: Padlet

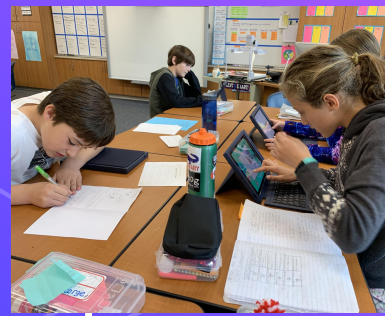
Current iPad Use in K-2nd Grade

- Collaborative work: screen casting writing and problem solving with whole class discussion
- Access to adopted online curriculum (Everyday Math, Foss) Progress monitoring (warmups, exit slips, assessments in new curriculum)
- iReady diagnostic and practice
- Sight words and interactive letter formation/handwriting
- Writing/Publishing/Video Authoring
 - Example: Educreations



Why 1:1?

- **Optimal model for efficiency and effectiveness**
- **Allows for continuity and digital skill building across grade levels**
- **Allows for flexibility within the classroom and more individualized learning**
- **Maximizes instructional time by allowing whole class access to online curriculum, assessments, digital resources**
- **Increases student engagement for certain projects and types of practice**
- **Enables teachers to efficiently address technology dependent standards**
- **Has been shown to increase volume of student writing and ease of revision**



Screen Time at K-2 and Implications

- According to our K-2 teachers, the vast majority of instruction (more than 95%) is delivered without the use of devices
- Devices are employed in a structured setting and are returned to the charging stations immediately after use
- Apple Classroom allows teachers to push specific content to students, monitor student use in real time, and lock/unlock as needed

Considerations

- Eliminate unstructured free time on devices
- Teachers/Administrators set parameters for allowed activities on devices
- Continue to monitor and limit screen time
- Continue professional development around best practices for implementing educational technology including monitoring student use
- Ensure each student receives digital citizenship instruction every year
- The SmartBoards™ are used every day in all classrooms. The 1 to 1 devices with screen casting compliment our SmartBoards™ allowing each classroom to be a highly collaborative environment (this was the intention when we designed the rooms and selected the devices)
- The cost difference for 1 to 1 compared to 2 to 1 at grades K-2 is about \$30K every three to five years
- Shared device models have become obsolete
- 1 to 1 has been deployed in every north county district and at San Diego Unified

Typical Class Schedule - 2nd Grade

Morning

8:00	Morning Routines
8:05	Math Workshop
9:05	Reading Workshop
10:05	Recess/Snack
10:20	Writing Workshop
11:20	Lunch

Afternoon

12:00	Mental Math
12:10	Word Study Read Aloud Social Studies Class Meeting STEAM Mystery Reader Craft
3:00	Dismissal



Questions?