



2021-22 Technology Plan Recommendations

Device History at RSF- 2010

- We started in the new facility in 2010 with ~250 eMacs and 90 17" iMacs that were stored and moved from the old site to support enough devices for one third of the students in each classroom in the new buildings and a device for each teacher.
- Twenty 2007 iMac Intel™ originally purchased for the Tech 21 and Science programs. Those machines are still in our fleet running Cloudready in the K-2 engineering lab.
- All devices were end user serviceable



Device History- 2011-12

- In 2011-12 we bought ~250 used 17" iMacs Intel™ (manufactured in 2004) for \$90 each to replace the eMacs and meet the requirement of providing a device for one third of the students in each classroom.
- These devices were end user serviceable and we kept them running in our fleet until last year, a nine year span.
- In 2013 Apple discontinued updates for that model so we procured a perpetual license for the Cloudready™ Google™ operating system product for \$16,000 and used the devices for another seven years.
- As more versions of our current Mac fleet run past Apple support, we will migrate those devices over to Cloudready™ to extend their lifespan.



Device History- 2011-12 cont.

- In 2011, 80 teacher machines were upgraded with new 2011 Intel™ models to replace their 2004 17" iMacs.
- These units were end user serviceable and in 2015 we replaced the magnetic hard drives with solid state drives and doubled the memory to 16GB. These devices are nearing the end of software support from Apple.



Device History 2012-13

- The Board adopted our first 1 to 1 program.
- We bought iPad 2s for all 5-8 students and teachers and ten devices for each K-4 classroom. We maintained the K-4 portion of that fleet for five years.



Device History 2015-16

The Chromebook Experiment.

- We purchased Asus flip Chromebooks with touch screen for all 5-8 students and teachers at \$200 per unit and deployed all of the iPad 2s for 1 to 1 at K-4.
- The Chromebooks easy for IT to maintain but the durability was very low and after only a year we had to buy new Lenovo Chromebooks for the 5th grade.
- The Chromebook touch functionality was far inferior to that of the iPad. After two years we recommended adopting iPads again going forward.



Device History 2015-16

- In 2015 the machines in our Library and 3-8 computer labs were upgraded to 21" iMacs.
- Due to COVID distancing requirements and shared device restrictions, we shifted 40 of them to teacher's desks in the summer of 2020 to give them something that could run a more current operating system.
- These devices are sealed and NOT end user serviceable. We will no longer recommend this form factor.



Device History 2017-18

- We bought an iPad 5th generation for each K-8 student and teacher as well as shared devices for special programs. We have maintained that fleet for four years.



Recommendations for 2021-22

1 to 1 Devices

Each student:

- iPad 8th generation
- Logitech Rugged Combo 3 Keyboard case.



Each teacher:

- 11" iPad Pro
- Magic Keyboard™



Recommendations for 2021-22 cont.

Staff Workstations

Mac Mini M1 chip 8 GB memory

- End user serviceable
- Lower cost
- Use existing keyboard and mouse

Viewsonic USB C monitor

- Adjustable height
- Portrait orientation



Recommendations for 2021-22 cont.

Student workstations and labs:

With 1 to 1, fewer student classroom computers are needed going forward.

- Move the 2015 iMacs currently on teacher's desks back to the K-2 computer lab
- Leave the 3-8 computer lab as is
- Leave the K-2 engineering lab as is
- Leave the Middle School science lab as is
- Move two of the 2011 iMacs to each classroom for:
 - Student printing
 - When a student's iPad is not charged or non-operational
 - Resources that are not supported on iPads



Summary of Recommended 2021-22 Expenditures

Devices	\$460,000
Educational Software	\$ 63,500
Cost Recovery (iPad Auction)	-\$ 30,000
Infrastructure	\$131,550
Unanticipated Expenditures	\$ 20,000
1to1 device future set aside	\$120,000
Total	\$765,050



2020-21 Technology Actuals as of 4/14/21

Resource	Object		Func		Budget	Actuals	Encumbrance	PreEncumb	Remaining
0	4300000	Materials And Supplie	7700	Centralized Data Pr	\$ 123,600.00	\$ 110,940.20	\$ 4,059.54	\$ 761.71	\$ 7,838.55
0	4300002	Supplies - Cartridges	7700	Centralized Data Pr	\$ 20,000.00	\$ 6,920.33	\$ 3,079.67	\$ -	\$ 10,000.00
905	4300000	Materials And Supplie	7700	Centralized Data Pr	\$ 10,000.00	\$ -	\$ -	\$ -	\$ 10,000.00
0	5800000	Prof/Consult Srv&Op	7700	Centralized Data Pr	\$ 90,000.00	\$ 34,870.64	\$ 20,888.39	\$ -	\$ 34,240.97
					\$ 243,600.00	\$ 152,731.17	\$ 28,027.60	\$ 761.71	\$ 62,079.52
Charging Zoom to Covid Instruction which isn't a part of your part					\$ 11,225.65	\$ 3,198.40			\$ 8,027.25

Funding Sources for Device Refresh

- Device set aside reserve \$189,000
- Possible ESSA Funding (Pending Title 1 approval)
- Deferred Maintenance
- Possible Current Year Unspent (general budget)



