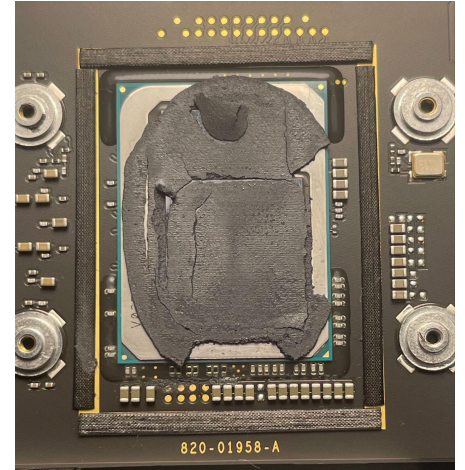


LPSD Technology Board Report

Sam Rigby - March 2025

Thermal Paste Fix - Schyler discovered degraded CPU thermal paste to be the cause of widespread overheating issues on our 2020 MacBook Airs. A \$1, 15-minute repair has allowed us to revive previously nonfunctional laptops and restore the full performance of others. We have been able to return 8 laptops to service so far, expecting 1-2 more years of use barring any future physical damage. So far, this fix has saved us an estimated \$3600 in repair costs. We expect savings to increase to at least \$8,000 as we continue the repairs.



Internet Update - For FY26, we're extending our Microcom contract one additional year. We will let the SES contract for Newhalen and Port Alsworth expire at the end of FY25, and add those sites to the Microcom extension. This will save LPSD **\$58,231** in FY26. We will need to go out to bid for FY27.

Recommended Device Replacement Plan - We have reviewed our current laptop inventory (134 students, 33 staff) and have drafted a recommended replacement plan. Please see the [attached report](#) for alternatives to sticking with Apple laptops:

Fiscal Year	Quantity	Model	Cost	Notes
FY26	28	2015 MacBook Air	\$24,612	High priority (11 years old in FY26)
FY27	60	2020 Intel MacBook Air	\$52,740	Medium priority (7 years old in FY27)
FY27	100	Chargers	\$3,000	Biennial replacement to account for broken or misplaced chargers
FY28	58	2020 Intel & M1 MacBook Air	\$50,982	All 2020 Macbook Airs will be 6-8 years old in FY28

Current Cybersecurity Focus - Phishing, spam, and email fraud are top cyber threats in education, accounting for 60-80% of breaches. This month, we are auditing and strengthening our email security using SC-8 (Transmission Confidentiality and Integrity) and SI-8 (Spam Protection) from [NIST SP 800-53](#) as our standard. These steps support the goals of the [NIST Cybersecurity Framework](#) (CSF), aiding LPSD's FERPA compliance.

LPSD Student Device Replacement Options

Grades 6-12, currently 1:1 Apple Laptop Assignment

The LPSD IT team has identified iPads and Chromebooks as viable alternatives to Apple laptops for our grades 6-12 students.

Here are five replacement plan options, including maintaining a 1:1 Apple laptop deployment.

FY26 Cost	FY26 Devices	FY27 Cost	FY27 Devices	FY28 Cost	FY28 Devices	Total Cost	Notes
\$24,612	28 Apple Laptops	\$52,740	60 Apple Laptops	\$50,982	58 Apple Laptops	\$128,334	Maintains Apple laptops for all of 6-12
\$17,000	34 Chromebooks	\$31,000	62 Chromebooks	\$18,000	36 Chromebooks	\$66,000	Transitions all 134 students over 3 years to Chromebooks, by grade group.
\$13,600	34 iPads	\$24,800	62 iPads	\$14,400	36 iPads	\$52,800	Transitions all 134 students over 3 years to iPads, by grade group.

This second table shows the per-device costs we are using for our calculations. Some of this data is from our experiences and some from industry reports.

Device	Cost	Estimated Lifespan (Years)	Estimated Breakage Rate	Average Repair Cost	Cost Per Year
Apple Laptop	\$879	5-7	10%	\$400	\$166 - \$216
iPad (10th Gen)	\$400	5-7	5%	\$249	\$70 - \$92
Chromebook	\$500	4-6	15%	\$200	\$113 - \$155