



DOVER SCHOOL DISTRICT

SAU 11

McConnell Center | 61 Locust Street, Suite 409 | Dover, NH 03820-4132
Phone: 603-516-6800 | Fax: 603-516-6809

Empowering all Learners

MEMORANDUM

TO: Dover School Board; Superintendent Harbron
FROM: Michael Limanni, Business Administrator
DATE: June 22, 2020
RE: District-wide 1:1 Learning Initiative

On March 18th, COVID-19 changed forever how schools across the country deliver education to their students. Some schools were more prepared than others, but no one was truly prepared to abandon the classroom for three months of remote learning.

Determined to make the most out of this experience, and to ready to capitalize on the growth made over the last three months, the leadership team has worked with their staff to evaluate the district-wide use of learning software, the use of student and staff devices, the digital platform that manages these devices, and the curriculum delivered across this platform. Our recommendation below addresses many of our concerns while improving how we deliver education to our students whether in or out of the classroom. Our focus was on equity in the tools used for digital learning, the platform that manages these tools, and the curriculum behind it all.

The Devices

On June 16th the technology department received six comprehensive bid responses to address the inequity surrounding both student and staff access to computers. **Table A** outlines the responses provided by each vendor that were reviewed by the technology department. In review, the technology department agreed on the following for the award:

- Part 1 – Laptops (for staff and students grades 9-12) - Trinity3
- Part 2 – Chromebooks (for students grades 1-8) - Trinity3
- Part 3 – Tablets (for kindergarten classrooms) - Trinity3
- Part 4 – Carts (multi-device charging stations for each homeroom) – CDWG

The technology department found that Trinity3 delivered the best price to value, a very robust warranty, and the best support out of all the vendors. Some vendors did not offer warranty or additional services; considering the limited size of our technology department, these additional services are crucial for smooth operations and near zero disruption to learning.

The Platform

Equally important to the devices, is the platform that manages both the devices, and the programs delivered through them. The platform must communicate device and network trouble to the technology department. It must allow for ease of access, and a consistent experience for all users (parents, students, and staff). It must not be too complex and take time from learning activities to operate. Through several months of intense scrutiny, the technology department landed on the following which are detailed further in **Table B**:

- **SysAid** - Helpdesk, Live Chat Support, Remote Desktop Support & Asset Management
- **Screencastomatic** - Screen Capture, lesson builder tool, etc.
- **Adobe Creative Cloud** - Adobe Creative Cloud - Employee License 500 Users
- **ZOOM** - Video Conferencing (100 Hosts)
- **Go Guardian Teacher** - Teacher Computer Control / View / Student Assist
- **Go Guardian Admin** - 1:1 Device Content Filtering and Deploy
- **Social Sentinel** - Mitigation Monitoring Cyber Bullying / Suicide Prevention
- **Jamf** - Migration to Cloud Services + License Apple Management

The Curriculum

With a focus on improving toward competency-based, high engagement, and personalized learning opportunities, the curriculum department recommends the following additions to what was planned for fiscal year 2021 (expanded detail in **Table C**):

Part 1 – software for in-school and remote learning

Freckle Premium	Freckle is a differentiated instruction platform for k-8 students in the 4 core subjects that is a supplementary resource beneficial for use at home or in school. Freckle is integrated with STAR assessment so that students are immediately assigned content at the appropriate level.
Generation Genius	Generation Genius is a science teaching resource for K-8 that brings school science standards to life through educational videos, lessons, activities, quizzes, etc. It is produced in partnership with the NSTA and is aligned to the next gen science standards.
Eduplanet21	Curriculum software that allows us to manage our district-wide curriculum by monitoring overarching district goals developed in the strategic plan and portrait of a graduate documents. It allows us to collaboratively develop units using Understanding by Design.
Typing Club	Helps K-8 students learn keyboarding through an engaging and interactive experience.
Digital licenses for DHS for Algebra I and II and geometry.	Give student access from home.

Part 2 – Assessment needs to measure learning gaps:

Aimsweb plus Early Literacy	Online screening tool for entering kindergarten students. Aligns with tools used by Special Education so that services for students can be seamless.
Aimsweb plus progress monitoring tools	Progress monitoring tools for K-8 that will help us determine gaps in reading that occurred because of the pandemic.

Part 3 – Supplies & Equipment to make working at home effective for students:

Document cameras	Allow k-12 teachers the capability to display three dimensional objects including math manipulatives, pages from a book, artwork, and a multitude of other things.
Home supply kits for k-8 students	White board, markers, etc.

Part 4 – Continued curriculum development work:

Planning for Virtual Classroom	Compression of standards to most essential if we are out of school.
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The Cost

Finally, while there are substantial costs to student learning for not implementing this plan, we recognize the importance of funding, managing, and sustaining this initiative over time. Summarized in **Table D**, the district administration requests your support for funding this program by starting with the use of unencumbered funds in the current fiscal year totaling \$1,456,057. With only days separating us from fiscal year 2021, we would also ask for your approval to enter into a 4-year purchase and lease agreement (requires a resolution to be provided to the City Council) for the purchase of both high school student, and district-wide staff laptops using revenue received from the CARES Act; payments are estimated at \$460,000 annually.

Supporting details for each cost item can be reviewed in Tables A-C.

We appreciate your consideration and look forward to becoming one of the leaders in the state for competency-based and digital learning.

TABLE A

Dover School District - Technology Department

1:1 Technology Device Bids

Part 1 Laptops	Cost	Device Bid to	Support / Warranty	Notes	Part 1 Laptops (9-12 Students & Employee Devices)
CDWG	\$1,262,235.00	No - QTY 2135	Limited	No support, no white glove, mfg warranty	
GovConnect	\$1,864,705.00	Yes - QTY 2135	3 Year Only Option		
HP Inc	\$1,826,942.00	Yes - QTY 2135	4 Year Warranty		
HPI International	\$1,729,350.00	Yes - QTY 2135	4 Year Warranty		
Trinity3 Technology (Option 1-Lenovo)	\$1,873,435.00	Yes - QTY 2135	4 Year Premiere with 2% Reserve added Hot Swap, Coverage Accidental Damage, Asset Tagging, Pre tested Adapters, Free Shipping, No Limit on Claims, Theft/Loss Coverage	3,4,5 Year Warranty Options. Priced is 4	
Trinity3 Technology (Option 2 - Dell)	\$1,911,915.00	Yes - QTY 2135	4 Year Premiere with 2% Reserve added Hot Swap, Coverage Accidental Damage, Asset Tagging	3,4,5 Year Warranty Options. Priced is 4	
Whalley	\$1,585,874.80	Yes - QTY 2135	4 Year Warranty	Support / Warranty incl Accidental Damage	
Part 1 Laptop Award: Trinity 3 Technologies					

Part 2 Chromebooks	Cost	Device Bid to Spec	Support / Warranty	Notes	Part 2 Chromebooks (1st-8th Grade Students)
CDWG	\$568,125.00	Yes	Mfg Only - Limited	Lenovo 14e - QTY 2250	
GovConnect	\$673,875.00	Yes	Mfg Only - Limited	Lenovo 14e - QTY 2250	
HP Inc	\$999,800.46	Yes	4 Year Warranty	Lenovo 14e - QTY 2250	
HPI International	Did Not Bid	N/A	4 Year Warranty	Lenovo 14e - QTY 2250	
Trinity3 Technology	\$724,500.00	Yes	4 Year Premiere with 2% Reserve added Hot Swap, Coverage Accidental Damage, Asset Tagging, Google Mgt Enrollment, Pre tested Adapters, Free Shipping, No Limit on Claims,	Lenovo 14e - QTY 2250	
Whalley	\$713,272.50	Yes	Optional - Not Included in Package Cost	HP 14a G5 - QTY 2250	
Part 2 Chromebook Award: Trinity 3					

TABLE B

New Product	Cost	Product Information
SysAid	13,000.00	Helpdesk, Live Chat Support, Remote Desktop Support & Asset Management
Screencastomatic	2,988.00	Screen Capture, lesson builder tool, etc
Adobe Creative Cloud	2,460.00	Adobe Creative Cloud - Employee License 500 Users
ZOOM	9,000.00	Video Conferencing (100 Hosts)
Go Guardian Teacher	17,080.00	Teacher Computer Control / View / Student Assist
Go Guardian Admin	17,080.00	1:1 Device Content Filtering and Deploy
Social Sentinel	9,915.00	Mitigation Monitoring Cyber Bullying / Suicide Prevention
Jamf	4,728.00	Migration to Cloud Services + License Apple Management
TOTAL	76,251.00	

TABLE C

Item to be purchased	Purpose	Cost
Curriculum Software to provide students consistency between in-school learning and remote learning.	Freckle Premium Freckle is a differentiated instruction platform for k-8 students in the 4 core subjects that is a supplementary resource beneficial for use at home or in school. Freckle is integrated with STAR assessment so that students are immediately assigned content at the appropriate level.	\$54,000.00
	Generation Genius Generation Genius is a science teaching resource for K-8 that brings school science standards to life through educational videos, lessons, activities, quizzes, etc. It is produced in partnership with the NSTA and is aligned to the next gen science standards.	\$2,862.00
	Eduplanet21 Curriculum software that allows us to manage our districtwide curriculum by monitoring overarching district goals	\$1,500.00
	Typing Club Helps K-8 students learn keyboarding through an engaging and interactive experience.	\$4,503.00
	Digital licenses for DHS for Algebra I and II and geometry. So kids have access at home.	\$63,000.00
Assessment Needs to measure learning gaps due to remote learning.	Aimswb plus Early Literacy Online screening tool for entering kindergarten students. Aligns with tools used by Special Education so that services for students can be seamless.	\$1,950.00
	Aimswb plus progress monitoring tools Progress monitoring tools for K-8 that will help us determine gaps in reading that occurred as a result of the pandemic.	\$17,550.00
Supplies/Equipment to make working at home effective for students.	Document cameras Allow k-12 teachers the capability to display three dimensional objects including math manipulatives, pages from a book, artwork and a multitude of other things.	\$104,141.00
	Home supply kits for k-8 students White board, markers, etc.	\$27,000.00
Curriculum Development work to prioritize and compress standards to make sure students are learning essential skills.	Planning for Virtual Classroom Compression of standards to most essential if we are out of school.	\$50,000.00

TABLE D

	Units	Unit Cost	Total	FY20 Request	FY21 Request
GR 9-12 Student & Staff Laptops - 4Yr Warranty	2135	\$ 794.00	\$ 1,695,190.00		
AC Adapters	2135	\$ 27.00	\$ 57,645.00		
4 Year Financing Request Starting FY21			\$ 1,752,835.00		\$ 460,119.19
GR 1-8 Chromebooks - 4 Yr Warranty	2250	\$ 319.00	\$ 717,750.00		
AC Adapters	2250	\$ 27.00	\$ 60,750.00		
			\$ 778,500.00	\$ 778,500.00	
GR K Tablets - 4 Yr Warranty	300	\$ 302.00	\$ 90,600.00		
AC Adapters & Protective Case	300	\$ 49.00	\$ 14,700.00		
			\$ 105,300.00	\$ 105,300.00	
Multi-Device Charging Cart	130	\$ 830.00	\$ 107,900.00	\$ 107,900.00	
Thinkpad Docking Station	500	\$ 175.00	\$ 87,500.00		
USB DVD Burner	300	\$ 62.00	\$ 18,600.00		
GDMI to GDMI Cable	500	\$ 10.00	\$ 5,000.00		
Display Port to VGA Cable	500	\$ 19.00	\$ 9,500.00		
			\$ 120,600.00	\$ 120,600.00	
Additional Software Cost			\$ 76,251.00	\$ 76,251.00	
Additional Curriculum Cost			\$ 326,506.00	\$ 276,506.00	\$ 50,000.00
ANNUAL TOTALS:			\$ 3,267,892.00	\$ 1,465,057.00	\$ 510,119.19