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Item Number	Board Member	Staff Assignment	Date of Request
149	Mahedavi	Ellis/Jones	1/9/20

Provide dollars to match slide 12 -Enrollment growth and changing demographics.

Slide 12 of the Superintendent's Budget presentation showed historical growth of different population groups of students between FY09 to FY21 projected. Just as the slide showed duplicated counts of students who may fall into more than one category, the budget support is also duplicated. The following chart shows the three different student population groups and the change in the number of students and budget support from FY09 to the FY21 proposed budget. Budget support only includes positions and program costs directly attributable to supporting these students.

Growth between FY09 to FY21 Projected			
	Students	Budget	Some Examples
English Learners (EL)	117.1%	211%	English Learner Teachers, Parent Liaisons, School Social Workers
Students with Disabilities	86.0%	109%	Special Education Teachers, Special Education Program
Economically Disadvantaged (FRL)	139.1%	116%	Parent Liaisons, Social Workers, Differentiated Staffing

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150	Serotkin	Ellis/Willoughby	1/11/20

Please provide the anticipated number of FY21 classrooms with 24, 25, 26, 27, 28, 29, 30, 31, and 32+ students at the elementary school level. Additionally, please provide the cost for lowering the threshold for a Teacher Assistant being required to each of those levels below the current thresholds, broken out by the grades 1-3 and grades 4-5 groupings. For example, the cost for a TA being required for all grade 1-3 classrooms with 24 and above students, the cost for a TA being required for all grade 4-5 classrooms with 29 and above students, etc.

Currently, the FY21 proposed budget includes 23.0 Teacher Assistants to support the grades 1-5 classrooms (9.0 for grades 1-3 and 14.0 for grades 4-5). Because of the preciseness of using projected enrollment for individual classrooms to project staffing, it is important to note that there will be variations in budgeted classroom enrollment versus actual classroom enrollment. Further complicating this is the regional assignment of students at schools that no longer have space to accommodate them at their home school.

For grades 1-3, reducing the Teacher Assistant earned threshold from 29 students to 24 students, results in the incremental and cumulative addition of FTEs and costs as shown in the following table.

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Teacher Assistant Grades 1-3				
Class Size	Incremental Additional FTEs Needed	Incremental Cost of Additional FTEs	Cumulative FTE Increase	Cumulative Total Cost
reduce to 28	15.0	$725,850	15.0	$725,850
reduce to 27	4.0	$193,560	19.0	$919,410
reduce to 26	12.0	$580,680	31.0	$1,500,090
reduce to 25	40.0	$1,935,600	71.0	$3,435,690
reduce to 24	55.0	$2,661,450	126.0	$6,097,140

For grades 4-5, reducing the Teacher Assistant earned threshold from 32 students to 29 students, results in the incremental and cumulative addition of FTEs and costs as shown in the following table.

Teacher Assistant Grades 4-5				
Class Size	Incremental Additional FTEs Needed	Incremental Cost of Additional FTEs	Cumulative FTE Increase	Cumulative Total Cost
reduce to 31	4.0	$193,560	4.0	$193,560
reduce to 30	0.0	$0	4.0	$193,560
reduce to 29	13.0	$629,070	17.0	$822,630

151	Serotkin	Willoughby	1/11/20

What would the cost be to "plus up" all teachers' steps to their correct years of experience, for those teachers affected by a past step increase freeze?

It would be a considerable undertaking to review employee files regarding step placement. In FY15, teachers did not receive a step increase, but they did receive a pay increase due to an increase applied to the teacher salary scale that year. In FY10, teachers did not receive any type of pay increase. Over the years, teachers have benefitted from step increases, market scale adjustments, and salary scale restructuring improvements.

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Item Number	Board Member	Staff Assignment	Date of Request
152	Mahedavi	Ziegler	1/12/20

What is our teacher evaluation process or a banding process to identify high performing, performing or under- performing Licenses Teachers?

The Licensed Evaluation Handbook (http://bit.ly/LCPSLicensedEval) outlines the teacher evaluation process.   The School Board approved the current edition of the Handbook in June 2019.

Administrative staff evaluates all licensed employees annually.   Other Administrators (assistant principals, director of school counseling, and athletic director) assist principals in holding goal-setting conferences, conducting observations, and writing evaluative statements.

The evaluation system uses the following range to determine the summative performance rating:

• 4 – Accomplished (3.6 – 4.0)
• 3 – Proficient (3.0 – 3.5)
• 2 – Developing/Needs Improvement (2.0 – 2.9)
• 1 – Unsatisfactory (1.0 – 1.9)

A Plan of Improvement (POI) is a process specifically designed to guide administrators on how to correct a performance deficiency or inappropriate employee conduct.   A POI is used when the licensed employee has received two or more ratings of developing needs/improvement or unsatisfactory on their summative evaluation.   A POI is a school-based plan that can be written at any time.   If a POI for a licensed employee is necessary, a conference with the employee occurs to present the POI Plan as a positive step to enhance the professional growth of the employee.   During the meeting, documented concerns are addressed and action steps for improvement are outlined. The employee is provided with resources and training opportunities as support.   The administration established specific timelines with measurable and achievable dates to monitor employee performance.

If a continuing contract teacher receives an overall rating of Unsatisfactory for a summative evaluation, a formal Plan of Assistance (POA) through the Department of Human Resources and Talent Development (HRTD) must be implemented at the beginning of the following school year. The Plan of Assistance (POA) is designed to provide intense support for a teacher in the spirit of mutual trust and assistance for the employee.   Principals develop the POA to include the teacher's strengths, areas of concern, and resources for assistance.   Areas of concern are aligned with the evaluation standards.   Central office and school-based personnel may serve as resources during the nine-week plan implementation.   An instructional coach from the Department of Human Resources and Talent Development is assigned as a layer of support for the employee.   HRTD's Instructional Coaches provide targeted support with lesson planning, instructional delivery, modeling, and co-teaching.   Like the POI, the POA Plan specifies specific timelines, action steps for improvement, and dates to monitor employee performance.

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Continuing and Non-Continuing Contract (probationary) Licensed Employees may be informed of the possibility of receiving a less than proficient evaluation. A Non-Continuing Contract Licensed Employee (probationary) who receives an unsatisfactory evaluation will be recommended for non-renewal. As noted in Virginia Code 22.1-307 (B), a teacher who has attained continuing contract status may be recommended for dismissal for incompetence, which the code defines as one or more unsatisfactory performance evaluations. If employment continues, an employee who receives an unsatisfactory evaluation shall not receive a step increase in pay the following school year (School Board Policy 7652).   To support teachers who are at risk of termination, the administration schedules a conference with the employee provides the employee documentation of a Mid-Year Support Plan.   The Mid-Year Support is a formalized plan that outlines areas of concern aligned with the evaluation standards, strategies for improvement, and resources of assistance.   Central office and school-based personnel are identified as resources.   An instructional coach from the Department of Human Resources and Talent Development is assigned as a layer of support for the employee.   Instructional coaches provide non-judgmental and confidential support aligned with the evaluation standards.

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153	**Corbo**	**Jones/Ellis**	**1/13/20**

Number of Instructional Facilitators county wide, leadership and cost of the program (Basically an overview of their purpose, the impact, and the number in each area and who they report to).

Instructional Facilitators provide instructional coaching and support to teachers and school leaders. LCPS has several types of Instructional Facilitators in the Departments of Instruction and Pupil Services. The 2016-2017 school year was the first year of the Division Instructional Facilitator Program in DOI. During its second year, the Research Office conducted a program evaluation to gather data on the impact of the program. The link to Division, Instructional Facilitator Program Evaluation is at https://www.lcps.org/page/1997. Since then, the program has grown and there is now a staffing standard for Division Instructional Facilitators who are each assigned to certain schools to provide coaching and support in a variety of instructional initiatives. This team also works with other instructional facilitators who provide targeted coaching and support for certain groups of teachers (e.g. Specialized Instructional Facilitators who work with Special Education teachers) or certain subject areas (e.g. Instructional Facilitators for Mathematics).   The following chart provides the details of the positions:

Position Title	Position Description/Impact	Contact	Cost
Instructional Facilitator, Division (DIFs and SBIFs)	The Instructional Facilitator Program in Loudoun County Public Schools supports teachers and teams in all elementary, middle, and high schools to enhance teacher practice and student learning. Instructional Facilitators support Professional Learning Communities so: • students are engaged in high quality learning experiences; • trust and relationships are built and maintained; • teams are high functioning; • data driven decisions are used to inform instruction; and best practices are implemented.	Instructional Facilitator Supervisor	**Current** - $3,135,142 **Proposed** with Deeper Learning DIFs and one new HS DIF due to staffing standard - $3,587,830
Instructional Facilitator, Mathematics (IFM)	Under the supervision of the Supervisor of Mathematics, the Mathematics Instructional Facilitator assists teachers and administrators in developing instructional knowledge in the area of mathematics. The Mathematics Instructional Facilitator will work side-by-side with classroom teachers, special education teachers, and other staff training, planning, modeling, and evaluating the delivery of mathematics instruction. Data collection and analysis will be modeled with an emphasis on developing programs that are consistent with evidence-based practices and implemented with fidelity for successful student outcomes.	Mathematics Supervisor	**Current** - 3 FTEs **Proposed** - 2 additional FTEs **Cost** - $577,301
Instructional Facilitator, Computer Science (IFCS)	Under general supervision of the Mathematics Supervisor, the Computer Science Instructional Facilitator assists teachers and administrators in developing increased content knowledge and pedagogical strategies through ongoing and sustained professional learning experiences. Additionally, the Facilitator provides ongoing support in the areas of curriculum, instruction, and assessment of computer science integration to build capacity among elementary and middle school content teachers. This position will also be responsible for designing and delivering quality professional development on the utilization of effective instructional strategies in computer science and bringing evidence-based practices into classrooms by working with teachers and other school leaders. This position will be responsible for supporting schools in the integration of the Computer Science Standards according to the VDOE's timeline in addition to implementing county wide initiatives, including, but not limited to, Project Based Learning, Performance Based Assessments, and Personalized Learning.	Mathematics Supervisor (new Computer Science Supervisor will become supervisor of the IFCS when hired)	**Current** - 3 FTEs **Proposed** - 2 FTEs (1 Grant Funded) **Cost** - $477,532(Local) $113,172(Grant)

Position Title	Position Description/Impact	Contact	Cost
Instructional Facilitator, Equity and Culturally Responsive Instruction	Primary responsibilities will include: • Supports culturally responsive professional learning opportunities for school and division staff, including efforts relating to opportunity gaps, achievement gaps, systemic racism, implicit bias, and participation by students from underrepresented groups in deeper learning experiences. • Collaboratively support efforts to provide professional learning pertaining to racial consciousness culturally responsive instruction in support of deeper learning. • Assists in equipping teachers and CLTs with the appropriate tools, resources, and professional learning, that enables them to provide culturally responsive teaching and relevant pedagogy in a classroom setting in support of deeper learning.	Supervisor, Equity and Culturally Responsive Instruction (budget pending)	**Proposed** - 3 FTEs **Cost** - $339,516
Instructional Facilitator, English Learner	The English learner facilitators will assist teachers and administrators in developing increased content knowledge and pedagogical strategies related to English language and literacy development through ongoing and sustained professional learning experiences. This position will be responsible for designing and delivering quality professional development on the utilization of effective instructional strategies to support English language and literacy development and bringing evidence-based practices into classrooms by working with teachers and other school leaders. The EL Facilitator's goal is to increase the ability of educators of ELs to understand and implement language and literacy programs and interventions as well as the EL curricula and language standards, which focus on embedded opportunities for language and literacy instruction to support the language acquisition of ELs.	English Learner Supervisor	**Proposed** - 2 FTEs **Cost** - $226,344
Instructional Facilitator, English and Reading	English and Reading Instructional Facilitators assists teachers and administrators in developing increased content knowledge and pedagogical strategies through ongoing and sustained professional learning experiences. Facilitators provide ongoing support in the areas of curriculum, instruction, and assessment. This position will also be responsible for designing and delivering quality professional development on the utilization of effective instructional strategies in English language arts and bringing evidence-based practices into classrooms by working with teachers and other school leaders. This position will be responsible for supporting schools in integrating county-wide initiatives, including but not limited to Project Based Learning, Performance Based Assessments, and Personalized Learning.	Elementary Reading and Writing Supervisor (Elementary) and Secondary English and Reading Supervisor	Reallocated positions **Proposed reallocation** - 6 FTEs **Cost** - $679,032

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The Department of Pupil Services has a team of Instructional Facilitators that are "Specialized" because they are highly skilled at providing side-by-side support to general education and special education teachers in the delivery of specialized approaches for students with disabilities. Specialized Instructional Facilitators (SIFs) provide targeted support to teachers and school teams based upon unique student needs, progress monitoring, and school accreditation data for students with disabilities. As listed below, the SIFs also provide professional learning and technical support that is unique to the area of focus.

The SIF team and specific special education supervisors' partner with the Department of Instruction facilitators and school-based teams to ensure alignment of curriculum goals and progress monitoring support. We believe the SIFs are highly impactful as evidenced by MAP progress monitoring, IEP goal progress, and school/teacher feedback. The following chart provides the details of the positions.

Position Title	Position Description	Supervisor	Number of Facilitators
Specialized Instructional Facilitator- Assistive Technology (SIF-AT)	Responsible for working directly with special education staff on the effective use and integration of technology to support student needs. Assists with implementation of strategies and tools to provide access to students to instructional and educational materials. Provides collaboration and evaluation services for school staff and students. Delivers division-wide training to provide professional learning for school staff in order to build capacity. Plans and conducts collaborative model lessons that demonstrate the use of assistive technology. Each SIF-AT is assigned to support a cluster of schools.	Special Education Supervisor - Related Services	There are 9 SIF-ATs for the division. Cost: $1,098,043
Specialized Instructional Facilitator- Autism (SIF-AUT)	Responsible for providing leadership, training and support for the implementation of specialized approaches in autism services instruction. This position works side-by-side with classroom teachers, special education teachers and other staff for training, modeling, observing, monitoring and evaluating the delivery of specialized approaches. Primary responsibilities include teach, model, facilitate and build teacher capacity in several schools to provide specialized instructional and behavior strategies using evidence-based approaches. Assist teachers in collecting and analyzing data; conduct fidelity checks to provide feedback for providers and to assist in data collection; and facilitate the process to identify appropriate strategies between identified needs and specific instructional and behavioral strategies. Collaborate with school-based and central office staff to provide professional development, engage in ongoing work in furthering the tiered approach for specialized instruction for students with autism and assist in developing action plans to support students across settings who require specialized instruction. SIF-AUTs are assigned by high school clusters and support schools with specialized programs for autism.	Special Education Supervisor - Autism	There are 4 SIF-AUTs assigned to the division. Cost: $425,645 .

Position Title	Position Description	Supervisor	Number of Facilitators
Specialized Instructional Facilitator - Behavior (SIF-B)	SIF-B's assist staff with the development of individualized programming centered around evidence-based practices to meet the unique behavioral needs of students. SIF Bs will facilitate the special education and general education processes across the school division both preventatively and during current interventions. This is done through coaching, observations, providing feedback, analyzing data and assist with Functional Behavior Assessments (FBAs) and Behavior Intervention Plans (BIPS). The aim is to provide the necessary support in the area of evidence-based behavior interventions and appropriately fade support to build capacity among school staff. SIF-Bs support identified staff within the scope of MTSS and specially designed instruction to meet the needs of the whole child. SIF-Bs are assigned to the six regions of LCPS and also provide intervention support to individual teachers as appropriate.	Special Education Supervisor	There are 6 SIF-Bs for the division. Cost: $669,289
Specialized Instructional Facilitator- Math (SIF-M)	SIF-Ms assist teachers and administrators in developing specialized knowledge in the area of mathematics. Ongoing and sustained professional learning experiences will provide support for the implementation of specialized approaches in mathematics instruction to build capacity among instructional staff. Data collection and analysis will be modeled with an emphasis on developing programs and services that are consistent with evidence-based practices and implemented with fidelity for successful student outcomes. The specialized instructional facilitator-mathematics will work side-by-side with classroom teachers, special education teachers and other staff for training, modeling, observing, monitoring and evaluating the delivery of specialized approaches. SIF-Ms are assigned to schools based upon school data related to SWD academic progress.	Special Education Supervisor - Specialized Instruction	There are currently 5 SIF-Ms. Cost: $558,930

Position Title	Position Description	Supervisor	Number of Facilitators
Specialized Instructional Facilitator-Reading (SIF-R)	SIF-Rs assist teachers and administrators in developing specialized knowledge in the area of reading. Ongoing and sustained professional learning experiences will provide support for the implementation of specialized approaches in reading/literacy instruction to build capacity among instructional staff. Data collection and analysis will be modeled with an emphasis on developing programs and services that are consistent with evidence-based practices and implemented with fidelity for successful student outcomes. The Specialized Instructional Facilitator - Reading will work side-by-side with classroom teachers, special education teachers and other staff for training, modeling, observing, monitoring and evaluating the delivery of specialized approaches. SIF-Rs are assigned to schools based upon school data related to SWD academic progress.	Special Education Supervisor - Specialized Instruction	There are currently 10 SIF-Rs. Cost: $1,221,278

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154	Corbo	Williams	1/13/20

What is the expected outcome and measurement of outcomes for each LCPS Strategic Action?

Each of the strategic actions include annual desired outcomes and performance measures. This response includes each of the strategic actions approved as part of Vision 20/20, as well as the two strategic actions approved as part of the next iteration of our strategic plan. In addition to being included in this response the Vision 20/20 strategic actions are posted on the Vision 20/20 web page accessed via the School Board web page pull-down tabs.

The expected outcomes are included as a supplemental item in BoardDocs and are labeled Question 154 Supplement Strategic Plan Outcomes.

155	Corbo	Lewis	1/13/20

What is the cost for restoring the summer pay rate for transportation?

The cost to restore bus drivers and bus attendants from the band rate used for Summer 2019 of $20 for bus drivers and $14.75 for bus attendants to their actual rate of pay would be $308,586. LCPS has established a practice of utilization of standardized hourly rates for certain positions including summer assignments outside of the annual contract.   Examples of other positions that pay part-time summer positions using the band rates are Principals, Teachers, Teacher Assistants and Secretaries for summer school.   Standardized rates proposed for FY21 can be found on page 323 in the budget book. In an effort to maintain consistent practices, an alternative solution to restoring actual salaries for drivers and attendants is to reassign the current band rate to better reflect adequate compensation for the temporary summer assignment.   Based upon the average hourly driver rate of $24.04, summer drivers could be moved from Band 7 at $20.00 to Band 9 at $25.75.   Similarly, the average hourly rate of attendants is $18.04 who could be moved from Band 5 at $17.00 to Band 6 at $18.00.   The cost of adjusting the bands for both drivers and attendants would be $136,664.

156	Corbo	Scheivert	1/13/20

What is the cost to reinstate printers in each classroom? What is the justification for their removal?

In 2015, the district conducted a print study to address concerns that the school division was spending a considerable amount of school funds on toner/printing supplies and a large amount of time repairing classroom printers. A print strategy was introduced that shifted away from individual classroom printers to zone-based printing.   In zone-based printing, robust printer/copiers are placed throughout the school making it easy for staff to access while reducing the overall printing costs. This model strikes a balance between ease of access and cost-effectiveness. Each site is custom crafted with building administrators and staff assisting to determine the best placement of the new printing zones.   The Multi-Function Devises (MFD's) allow for printing, copying, scanning, and faxing.

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Since 2015, the school division has been focused on reducing the need to print documents and make digital resources the priority. District initiatives such as the virtual first-day packet, online report cards, Blackboard Connect, PVUE/SVUE, eHallpass, and the implementation of 1:1 devices have significantly reduced the need for paper printing and increased overall access to digital tools, processes, and instructional resources. However, under the current MFD deployment, students and staff are always within the proximity of a printer.
Following are the hardware costs only associated with a classroom-based printer.

Number of Classrooms	Cost per printer	Total
5016	$350.00	$1,755,600

Over the past few years, DDI has significantly reduced our dependence upon professional services for large summer implementations, such as the instructional computer modernization and collaboration monitor modernization projects. However, we still maintain a larger project workload than our resources can complete within the short summer timeline. The professional services costs below would be necessary to complete this large scale effort which will require significant logistics and human resources for warehousing, delivery, installation, and site cleanup.

Number of Classrooms	Cost per classroom	Total
5016	$100.00	$501,600

The district does not currently maintain the parts and equipment necessary to ensure classroom printers remain functional and do not become a frustration within the digital learning environment. Two additional costs are necessary to ensure that these devices are maintained properly. First, we would anticipate an annual 2% to 5% device failure rate, so the DDI repair and maintenance budget will need an increase to cover these expenses.

Total Device Costs	Anticipated Failure Rate	Maintenance Increase
$1,755,600	5%	$87,780

Second, additional staffing would be necessary to ensure the implementation of several thousand new devices does not diminish DDIs ability to meet district expectations for proactive maintenance, on-demand technical support, and end-user satisfaction. DDI would recommend a small increase to the current Digital Experience Staffing standards, as shown on the chart on the following page.

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Current Staffing Standard	Revised Staffing Standard	FTE	Staffing Increase
1 per 700 students	1 per 640	11	$787,754

In addition to the costs above, it would be necessary to increase the instructional allotment rate to provide funding for schools to purchasing toner, as shown in the table below. These averages are calculated using actual 2015 expenditures for toner.

Level	Average Annual Toner Cost per school (based on FY15 actual costs)	Number of Schools	Total Average Toner Cost	Increase to Per Pupil Instructional Allotment Rate
Elementary School	$5,109	57	$291,213	$7.75
Middle School	$5,727	17	$97,359	$4.71
High School	$11,177	19	$212,363	$7.80
Douglass	$11,177	1	$11,177	
The Academies	$11,177	1	$11,177	
Total	$44,367	95	$623,289	

The total cost to reinstate printers in each classroom is $3,756,023 and is summarized in the following table.

Summary of Costs		
	FTE	Cost
Printer		1,755,600
Installation		501,600
Maintenance		87,780
Toner		623,289
Digital Experience Specialists	11.00	787,754
	11.00	3,756,023

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157	Corbo	Jones/Ellis	1/13/20

Provide information comparing the number of special education students, staff and support staff (assistants etc.) to EL students, staff, support staff and assistants.

Staffing and services provided to LCPS students receiving special education services and English learner services are guided by federal and state laws and guidance.
Federal and state laws and regulations provide mandates and guidelines for the provision of special education services for children with disabilities. It is the policy of LCPS to adhere to all federal and state laws and to ensure Free Appropriate Public Education (FAPE) to students with disabilities through specialized instruction to access the general education curriculum, in the least restrictive environment, to the extent possible based upon the student's individualized needs.   The LCPS staffing standards related to special education ensure compliance with the Virginia Standards of Quality and regulations governing special education programs.

Students with disabilities receive support based upon what is described in their Individualized Education Program.   In addition to specialized supports, students with disabilities are instructed with students without disabilities in general education settings and classrooms, as appropriate, and in accordance with the Individualized Education Program.   The amount of special education services varies among students with disabilities and is described as Level I or Level II depending upon the amount of time the student receives special education.   An LCPS strategic action continues to focus on inclusive learning environments for all students.   To support this goal, LCPS provides a continuum of services, social emotional support, specialized instruction, and behavioral support for students with disabilities.   The FY21 budget requests and staffing standard enhancements are proposed to provide services to the projected 10,600 students with disabilities.

The LCPS English Learner (EL) Program is a comprehensive program that serves students in all of LCPS' elementary, middle, and high schools, as well as the charter schools and educational centers.

LCPS' EL Program is a Title III Program, the purpose of which is to:
- help ensure that English Learners attain both English language proficiency and meet state academic standards,
- provide an effective language instruction educational program (LIEP),
- provide professional development to teachers, principals and LEAS to develop/enhance capacity to provide an effective LIEP,
- promote parent, family, and community participation in LIEPs.

Title III is a part of the Elementary and Secondary Education Act of 1965 (ESEA), as amended by the Every Student Succeeds Act of 2015 (ESSA). LCPS is preparing for the triennial audit in February 2020.

In addition to the Title III Civil Rights Requirements, LCPS' EL Program also must meet Federal Requirements for Serving English Learners. These include:

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- the identification, screening, and placement process is consistent for all incoming students,
- division personnel are implementing the English Language Development (ELD) standards in classrooms,
- ELs are provided meaningful access to the same curriculum as all students,
- ELs are provided a language instruction educational program (LIEP) so that they may attain English proficiency,
- ELs are placed in specialized programs and extracurricular activities that are available to all students,
- the appropriate language instruction educational programs and services are available for ELs who are identified with disabilities.

The following chart compares the number of special education students, teachers, and teacher assistants to English learner students, teachers and teacher assistants as requested.

LCPS FY21 (Proposed)	English Learners	Students with Disabilities
Students	11,528	10,600
Teachers	370.3 FTEs	1,048.4 FTEs[1]
Teacher Assistants	0 FTEs	1,049.0 FTEs[2]

[1]*Excludes 15 Consulting Teachers*

[2]*Excludes 13 Advanced Interpreter for Deaf and Hard of Hearing*

Following is a chart comparing English Learner and Special Education students and staff from neighboring school divisions.

	FY20 Program Comparison to select WABE Divisions					
	English Learner			**Special Education**		
Division	**Approved Enrollment**	**Teacher**	**Teacher Assistant**	**Approved Enrollment**	**Teacher[1,2]**	**Teacher Assistant[1,2]**
Loudoun	10,568	371.3	-	10,382	1,144.1	983.0
Arlington	5,171	25.4	4.5	4,577	N/A	N/A
Alexandria	5,233	152.0	-	2,086	195.6	246.0
Fairfax	35,310	771.5	-	27,174	3,241.7	2,675.2
Prince William	15,279	405.0	-	11,529	N/A	N/A
[1] *Includes both Operating Fund and Grant Fund positions*						
[2] *Data provided is best available at time of printing. Positions titles and usage may not be equal across divisions.*						

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158	Corbo	Ellis	1/13/20

Provide a chart to show test scores over the past 5 years SOL, MAP, PALS and DRA. The public says we have dropped in test scores over the past two years. Is this true and if so please identify where our weaknesses are as a county and school.

Each year, the Department of Instruction provides a presentation to the School Board on the previous year's student achievement data. The data in this annual presentation includes Standards of Learning (SOL), Scholastic Aptitude Test (SAT), Advanced Placement, and Measures of Academic Progress (MAP) data for LCPS students in addition to comparison data of neighboring school divisions. Following is a link to the Board Docs Information Item that contains the October 2019 School Board presentation on student achievement and other relevant attachments. This presentation includes SOL and MAP assessment results.
https://bit.ly/37znjZ4

In LCPS, there have been slight decreases in Science and Reading SOL proficiency between 2015-16 and 2018-19, while Social Science and Math SOL proficiency rates have been consistent.   These patterns are also reflected throughout other divisions across Virginia. LCPS achieved greater than projected growth in Math and Reading according to MAP Fall-Spring growth scores for 2018-19, which was the first year MAP data was available for all elementary and middle schools. The Developmental Reading Assessment 2 (DRA) and Phonological Awareness Literacy Screening (PALS) data indicate slight decreases in student readiness in the Spring for 2014-15 through 2018-19.

The PALS assessment is given to students in Grades K-2. Staff does not report this data as part of the annual student achievement presentation because of the nature of the tool. Rather than measuring student achievement, the PALS assessment is a screening, diagnostic and progress monitoring tool for grades K-2, and it is used to assist teachers in identifying students in these grades in need of reading intervention.

Additional information on the PALS assessment and early reading intervention can be found on the VDOE's website here:
https://bit.ly/2RIcnTH

The DRA is a formative reading assessment system that allows teachers to assess student reading level and observe, record, and evaluate changes in performance. Similar to the PALS assessment, staff does not report this data as part of the annual student achievement presentation because of the nature of the tool.

The DRA2 Benchmark Assessment is a standardized reading test used to determine a student's instructional level in reading. The DRA2 is administered individually to students by teachers. During the DRA2 administration, students read a selection (or selections) and then retell what they have read to the examiner.

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Even though the PALS and DRA data is not considered student achievement data, the five-year trend for each of these assessments is shown in the tables below:

% of Students Meeting PALS Spring Benchmark	2014-2015	2015-2016	2016-2017	2017-2018	2018-2019
Grade					
KG	91.33%	92.25%	91.73%	91.72%	90.76%
1	89.31%	89.77%	89.13%	88.12%	85.43%
2	84.50%	85.91%	84.06%	84.08%	80.86%
Grand Total	88.54%	89.47%	88.44%	88.21%	85.89%

% of Students Meeting DRA Spring Benchmark	2014-2015	2015-2016	2016-2017	2017-2018	2018-2019
Grade					
KG	86.54%	88.34%	88.14%	86.46%	87.04%
1	78.63%	77.91%	78.01%	75.29%	74.05%
2	79.89%	80.87%	78.75%	77.53%	75.89%
3	76.29%	75.43%	74.53%	72.26%	71.00%
Grand Total	79.80%	80.02%	79.45%	77.38%	77.08%

Loudoun County Public Schools
FY21 School Board Questions
January 30, 2020

Item Number	Board Member	Staff Assignment	Date of Request
159	Reaser	Willoughby	1/13/20

Please provide staffing standards and cost projections for the following, if we count students receiving free or reduced lunch as 1.5:
- a. parent liaisons
- b. counselors
- c. teachers in grades K-12
- d. other school-based personnel (and delineate the positions)

The following chart displays the additional FTEs or hours (for Parent Liaisons) that would be required if students from economically disadvantaged families were weighted as a 1.5 student in the staffing standard calculations. The FY21 proposed budget includes 24.0 Differentiated FTEs that schools can utilize in support of these students. Also, several staffing standards for the positions listed below have enhancements for FY21 to provide additional support to schools.

Position	Economically Disadvantaged	
	FTE	Amount
Assistant Principal, MS	1.0	$ 147,290
Secretary I, MS	1.0	$ 50,572
Teacher Assistant, Study Hall - MS	1.0	$ 48,390
Teacher, Grades 6-8	102.7	$ 10,737,901
Total Middle School	**105.7**	**$ 10,984,153**
Douglass School	0.2	$ 20,911
Total Douglass School	**0.2**	**$ 20,911**
Assistant Principal, HS	2.0	$ 311,168
Teacher Assistant, Study Hall - HS	4.0	$ 193,560
Teacher, Grades 9-12	144.2	$ 15,076,975
Total High School	**150.2**	**$ 15,581,703**
Full Day Kindergarten	15.0	$ 1,568,340
Full Day Kindergarten TA	15.0	$ 725,850
Teacher, Grades 1-5	138.0	$ 14,428,728
Assistant Principal Elementary	-	$ -
Dean, Elementary	11.0	$ 1,197,515
Secretary II, Elementary	4.0	$ 285,200
Librarian	-	$ -
Teacher, ART Elementary	6.0	$ 627,336
Teacher, PE Elementary	10.90	$ 1,139,660
Teacher, Music Elementary	9.00	$ 941,004
Teacher, Reading Elementary	3.00	$ 313,668
Total Elementary School	**211.9**	**$ 21,227,301**
Educational Diagnostician	8.00	$ 758,248
Psychologist	1.00	$ 111,199
Social Worker	2.00	$ 222,398
School Nurse Assistant	3.50	$ 138,668
School Counseling Secretary	1.50	$ 95,908
School Counselor	25.40	$ 2,743,497
Parent Liaison	1,260 hours	$ 24,415
Total Pupil Services	**41.4**	**$ 4,094,333**
Grand Total	**509.40**	**$ 51,908,402**

Loudoun County Public Schools
FY21 School Board Questions
January 30, 2020

Item Number	Board Member	Staff Assignment	Date of Request
160	Reaser	Willoughby	1/13/20

Please provide staffing standards and cost projections for the following, if we count EL students as 1.5:

    a. parent liaisons
    b. counselors
    c. teachers in grades K-12
    d. other school-based personnel (and delineate the positions)

The following chart displays the additional FTEs or hours (for Parent Liaisons) that would be required if English learner students were weighted as a 1.5 student in the staffing standard calculations. The FY21 proposed budget includes 24.0 Differentiated FTEs that schools can utilize in support of these students. Also, several staffing standards for the positions listed below have enhancements for FY21 to provide additional support to schools.

Position	English Learner FTE	English Learner Amount
Assistant Principal, MS	0.0	$ -
Secretary I, MS	0.0	$ -
Teacher Assistant, Study Hall - MS	0.0	$ -
Teacher, Grades 6-8	34.1	$ 3,565,360
Total Middle School	*34.1*	*$ 3,565,360*
Douglass School	2.0	$ 209,112
Total Douglass School	*2.0*	*$ 209,112*
Assistant Principal, HS	0.0	$ -
Teacher Assistant, Study Hall - HS	0.0	$ -
Teacher, Grades 9-12	48.6	$ 5,081,422
Total High School	*48.6*	*$ 5,081,422*
Full Day Kindergarten	28.0	$ 2,927,568
Full Day Kindergarten TA	28.0	$ 1,354,920
Teacher, Grades 1-5	119.0	$ 12,442,164
Assistant Principal Elementary	1.0	$ 124,321
Dean, Elementary	9.0	$ 979,785
Secretary II, Elementary	4.0	$ 285,200
Librarian	0.5	$ 53,571
Teacher, ART Elementary	5.8	$ 606,425
Teacher, PE Elementary	10.5	$ 1,097,838
Teacher, Music Elementary	8.7	$ 909,637
Teacher, Reading Elementary	2.0	$ 209,112
Total Elementary School	*216.5*	*$ 20,990,541*
Educational Diagnostician	7.0	$ 663,467
Psychologist	1.0	$ 111,199
Social Worker	2.0	$ 222,398
School Nurse Assistant	-	$ -
School Counseling Secretary	0.5	$ 38,535
School Counselor	14.2	$ 1,516,948
Parent Liaison	756 hours	$ 14,649
Total Pupil Services	*24.7*	*$ 2,567,196*
Grand Total	*325.90*	*$ 32,413,631*

Loudoun County Public Schools
FY21 School Board Questions
January 30, 2020

Item Number	Board Member	Staff Assignment	Date of Request
161	Reaser	Willoughby	1/13/20

Please provide staffing standards and cost projections for the following, if we combine both categories of students listed above as 1.5:
   a. parent liaisons
   b. counselors
   c. teachers in grades K-12
   d. other school-based personnel (and delineate the positions)

The following chart displays the additional FTEs or hours (for Parent Liaisons) that would be required if English learner students and students from economically disadvantaged families were weighted as a 1.5 student in the staffing standard calculations.   The FY21 proposed budget includes 24.0 Differentiated FTEs that schools can utilize in support of these students. Also, several staffing standards for the positions listed below have enhancements for FY21 to provide additional support to schools.

Position	EL & Econ. Disadvantaged	
	FTE	Amount
Assistant Principal, MS	2.0	$ 294,580
Secretary I, MS	2.0	$ 101,144
Teacher Assistant, Study Hall - MS	2.0	$ 96,780
Teacher, Grades 6-8	136.9	$ 14,313,716
Total Middle School	*142.9*	*$ 14,806,220*
Douglass School	2.2	$ 230,023
Total Douglass School	*2.2*	*$ 230,023*
Assistant Principal, HS	4.0	$ 622,336
Teacher Assistant, Study Hall - HS	4.0	$ 193,560
Teacher, Grades 9-12	192.0	$ 20,074,752
Total High School	*200.0*	*$ 20,890,648*
Full Day Kindergarten	47.0	$ 4,914,132
Full Day Kindergarten TA	47.0	$ 2,274,330
Teacher, Grades 1-5	250.0	$ 26,139,000
Assistant Principal Elementary	5.0	$ 621,605
Dean, Elementary	15.0	$ 1,632,975
Secretary II, Elementary	13.0	$ 926,900
Librarian	2.5	$ 267,855
Teacher, ART Elementary	12.0	$ 1,254,672
Teacher, PE Elementary	21.20	$ 2,216,587
Teacher, Music Elementary	17.50	$ 1,829,730
Teacher, Reading Elementary	7.00	$ 731,892
Total Elementary School	*437.2*	*$ 42,809,678*
Educational Diagnostician	10.00	$ 947,810
Psychologist	3.00	$ 333,597
Social Worker	3.00	$ 333,597
School Nurse Assistant	4.00	$ 147,224
School Counseling Secretary	2.00	$ 114,746
School Counselor	42.00	$ 4,516,734
Parent Liaison	2,232 hours	$ 43,249
Total Pupil Services	*64.00*	*$ 6,436,957*
Grand Total	*846.30*	*$ 85,173,527*

Loudoun County Public Schools
FY21 School Board Questions
January 30, 2020

Item Number	Board Member	Staff Assignment	Date of Request
162	**Beatty**	**Jones/Willoughby**	**1/14/20**

Provide a mapping between the old and new staffing standards for special education. Specifically, intensive programs. Explain how it is calculated in the original standard vs the enhanced standard.

The following pages crosswalk the current FY20 staffing standards for Special Education Teacher and Special Education Teacher Assistant to the FY21 Proposed staffing standards.

Comparison of Teacher, Special Education Staffing Standards			
FY20		**FY21**	
Student Disability and Level*	**Ratio**	**Student Program Assignment**	**Ratio**
Autism - Level 1	1:8	Cross-Categorical	1:10
Autism - Level 2	1:6	Self-Contained Program - Autism	1:8
		Intensive Program - Autism	1:6
Deaf-Blindness - Level 1 & 2	1:6	Combination of disability levels	
Deafness - Level 1	1:8	Cross-Categorical	1:10
Deafness - Level 2	1:6	Self-Contained Program - Deaf & Hard of Hearing	1:8
Developmental Delay - Level 1	1:8	ECSE Program - Autism	1:8
		ECSE Program - Class-Based	1:10
		ECSE Program - Deaf & Hard of Hearing	1:8
		ECSE Program - Multiple Disabilities	1:8
		ECSE Program - Resource Itinerant	1:12
		ECSE Program - Reverse Inclusion	1:6
Developmental Delay - Level 2	1:6	ECSE Program - Autism	1:8
		ECSE Program - Class-Based	1:10
		ECSE Program - Deaf & Hard of Hearing	1:8
		ECSE Program - Multiple Disabilities	1:8
		ECSE Program - Resource Itinerant	1:12
		ECSE Program - Reverse Inclusion	1:6
Emotional Disability - Level 1	1:10	Cross-Categorical	1:10
Emotional Disability - Level 2	1:8	Self-Contained Program - Emotional Disability	1:8
		Intensive Program - Emotional Disability	1:6
Hearing Impairment - Level 1	1:12	Cross-Categorical	1:10
Hearing Impairment - Level 2	1:8	Self-Contained Program - Deaf & Hard of Hearing	1:8
Intellectual Disability - Level 1	1:10	Cross-Categorical	1:10
Intellectual Disability - Level 2	1:6	Self-Contained Program - Intellectual Disability	1:8 [1]
Multiple Disabilities - Level 1 & 2	2:6	Cross-Categorical	1:10
		Self-Contained Program - Multiple Disabilities	1:6
Orthopedic Impairment - Level 1	1:8	Cross-Categorical	1:10
Orthopedic Impairment - Level 2	1:8	Staffing standard is applied where services are received in Cross-Categorical or specific Program	
Other Health Impairment - Level 1	1:14	Cross-Categorical	1:10
Other Health Impairment - Level 2	1:8	Staffing standard is applied where services are received in Cross-Categorical or specific Program	
Specific Learning Disability - Level 1	1:14	Cross-Categorical	1:10
Specific Learning Disability - Level 2	1:8	Cross-Categorical	1:10
Traumatic Brain Injury - Level 1	1:8	Cross-Categorical	1:10
Traumatic Brain Injury - Level 2	1:6	Staffing standard is applied where services are received in Cross-Categorical or specific Program	

[1]Correction to ratio printed on page 392 of budget book

*Level I services means the provision of special education to students with disabilities for less than 50 percent of their instructional school day.

*Level II services means the provision of special education to students with disabilities for 50 percent or more of the instructional school day.

Comparison of Teacher Assistant, Special Education Staffing Standards			
FY20		**FY21**	
Student Disability and Level*	**Ratio**	**Student Program Assignment**	Ratio
Autism - Level 1	1:8	Cross-Categorical	1:14
Autism - Level 2	1:8	Self-Contained Program - Autism	2:8
		Intensive Program - Autism	4 Behavioral Assistants:6
Deaf-Blindness - Level 1 & 2	1:8	Combination of Disability Levels	
Deafness - Level 1	1:10	Cross-Categorical	1:14
Deafness - Level 2	1:10	Self-Contained Program - Deaf & Hard of Hearing	1:8
Developmental Delay - Level 1	1:8	ECSE Program - Autism	3:8
		ECSE Program - Class-Based	1:10
		ECSE Program - Deaf & Hard of Hearing	1:8
		ECSE Program - Multiple Disabilities	2:8
		ECSE Program - Reverse Inclusion	1:6
Developmental Delay - Level 2	1:6	ECSE Program - Autism	3:8
		ECSE Program - Class-Based	1:10
		ECSE Program - Deaf & Hard of Hearing	1:8
		ECSE Program - Multiple Disabilities	2:8
		ECSE Program - Reverse Inclusion	1:6
Emotional Disability - Level 1	1:10	Cross-Categorical	1:14
Emotional Disability - Level 2	1:10	Self-Contained Program - Emotional Disability	1:8
		Intensive Program - Emotional Disability	4 Behavioral Assistants:6
Hearing Impairment - Level 1	1:12	Cross-Categorical	1:14
Hearing Impairment - Level 2	1:10	Self-Contained Program - Deaf & Hard of Hearing	1:8
Intellectual Disability - Level 1	1:12	Cross-Categorical	1:14
Intellectual Disability - Level 2	1:8	Self-Contained Program - Intellectual Disability	1:8[1]
Multiple Disabilities - Level 1	2:8	Cross-Categorical	1:14
Multiple Disabilities - Level 2	2:6	Self-Contained Program - Multiple Disabilities	2:6
Orthopedic Impairment - Level 1	1:12	Staffing standard is applied where services are received in Cross-Categorical or specific Program	
Orthopedic Impairment - Level 2	1:8	Cross-Categorical	1:14
Other Health Impairment - Level 1	1:14	Cross-Categorical	1:14
Other Health Impairment - Level 2	1:8	Staffing standard is applied where services are received in Cross-Categorical or specific Program	
Specific Learning Disability - Level 1	1:14	Cross-Categorical	1:14
Specific Learning Disability - Level 2	1:8	Cross-Categorical	1:14
Traumatic Brain Injury - Level 1	1:8	Cross-Categorical	1:14
Traumatic Brain Injury - Level 2	1:6	Staffing standard is applied where services are received in Cross-Categorical or specific Program	

[1]Correction to ratio printed on page 392 of budget book

*Level I services means the provision of special education to students with disabilities for less than 50 percent of their instructional school day.

*Level II services means the provision of special education to students with disabilities for 50 percent or more of the instructional school day.

Loudoun County Public Schools
FY21 School Board Questions
January 30, 2020

Item Number	Board Member	Staff Assignment	Date of Request
163	Mahedavi	Willoughby	1/14/20

How much overtime do we pay for classified positions in a year?

The following table shows two years of actual classified overtime expense, the current year budget for classified overtime, and the FY21 proposed budget for classified overtime. Some common examples of overtime usage include Custodians and Bus Drivers supporting after-hours programs. The FY21 proposed budget has increased to be more in line with FY19 actual.

FY18 Actual	FY19 Actual	FY20 Budget	FY21 Proposed
5,336,900	6,382,416	5,921,202	6,309,202

164	Morse	Ziegler	1/16/20

Professional lanes on the salary scale go to step 24. Why do the Administrative lanes and most of the auxiliary lanes only go to step 20?

The administrative lanes assume that an employee will have professional experience before placement on the administrative scale. For example, a teacher promoted to Assistant Principal must have a minimum of three years' experience as a classroom teacher. Additionally, an employee promoted to Supervisor, Facilities Services, must have a minimum of 10 years' experience in a skilled trade or building maintenance. The scale design accounts for these experience levels.

The professional lanes are designed to bridge the gap between the classified and the administrative scale. The classified scale has 28 steps, and the administrative scale has 20. A hypothetical career path in non-teaching positions could take an employee from the classified scale to the professional scale to the administrative scale as they gain experience and longevity. For example, the career path of a candidate hired as an Endpoint Specialist (Classified Scale) in DDI could aspire to an Endpoint Engineer (Professional Scale) and culminate in the position of Supervisor, Endpoint Management (Administrative Scale).

The Auxiliary Scale was designed based on market and recruiting data that showed the need to increase salaries earlier in an employee's career. Expanding the scale beyond twenty would create a situation where employees earned wages that far exceed market rates beyond step 20.

Loudoun County Public Schools
FY21 School Board Questions
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Item Number	Board Member	Staff Assignment	Date of Request
165	Corbo	Ellis	1/17/20

Please provide a list of gifted staff, how many classes/students they service broken down by location.

The following tables show a list of gifted education FTE and the number of students they serve in each school for elementary and middle school. At the high school level, LCPS has one Gifted Education Resource Teacher who is based in the central office. This individual coordinates high school gifted education tasks including, but not limited to, Summer Regional Governor's School and Thomas Jefferson High School for Science and Technology entrance exams for LCPS. This staff person also provides support to middle school gifted resource teachers.

Elementary School	SEARCH FTEs	Itinerant FTEs (SEARCH)	# SEARCH Classes	FUTURA FTE	# of FUTURA Students	Transition (to new program) FTE	# of Gifted Learners/School-Based Program
ALDIE	0	Itinerant - .1	4				
ALGONKIAN	0		13			1	7
ARCOLA	1		28	1	88		
ASHBURN	0		18			1	34
BALL'S BLUFF	0	Itinerant - .5	17				
BANNEKER	0	Itinerant - .2	6				
BELMONT STATION	0		20	1	117	1	7
BUFFALO TRAIL	1		30				
CARDINAL RIDGE	1		25	1	115		
CATOCTIN	0	Itinerant - .6	19				
CEDAR LANE	1		23				
COOL SPRING	0	Itinerant -.5	19				
COUNTRYSIDE	1		22	2	115		
CREIGHTON'S CORNER	1		35			1	43
DISCOVERY	1		25				
DOMINION TRAIL	1		20				
EMERICK	0		15			1	13
EVERGREEN MILL	0		16			1	12
FOREST GROVE	1		18	1	98		
FRANCES HAZEL REID	0	Itinerant -.5	20				
FREDERICK DOUGLASS	1		21	0.6	51		
Goshen Post	1		29			1	61
GUILFORD	1		18				
HAMILTON	0	Itinerant -.2	6				
HILLSIDE (HLS)	0	Itinerant - .6	19				
HORIZON	1	Itinerant - .4	18				
HUTCHINSON FARM	1		22	2	138		
JW TOLBERT	0		21			1	15
KEN CULBERT	0		15	1	115	1	18
LEESBURG	1		14				
LEGACY	0.6		26				
LIBERTY	1		27				
LINCOLN	0	Itinerant - .1	4				
LITTLE RIVER	0	Itinerant - .6	19				
LOVETTSVILLE	0	Itinerant - .5	16				
LOWES ISLAND	1		18				
LUCKETTS	0	Itinerant -.2	7				
MADISON'S TRUST	1		32				
MEADOWLAND	0	Itinerant - .4	14				
MILL RUN	1		23				
MOOREFIELD STATION	1		27			1	40
MOUNTAIN VIEW	1		20				
NEWTON LEE	1		19				
PINEBROOK	1		26				
POTOWMACK	0	Itinerant - .4	17				
ROLLING RIDGE	1	Itinerant - .3	20				
ROSA LEE CARTER	0	Itinerant - .4	26			1	36
ROUND HILL	1		16				
SANDERS CORNER	0		15			1	14
SELDENS LANDING	1		20	2	181		
STERLING	0	Itinerant - .5	15				
STEUART WELLER	0	Itinerant - .2	24			1	33
SUGARLAND	0		18			1	6
SULLY	1		13				
SYCOLIN CREEK	1		19	2	169		
WATERFORD	0	Itinerant - .2	7				
WAXPOOL	1		26				

165 (continued)

Middle School	19-20 FTE	19-20 Gifted Enrollment
Belmont Ridge	1	112
Blue Ridge	1	79
Brambleton	2	238
Eagle Ridge	2	195
Farmwell Station	1	140
Harmony	1	121
Harper Park	1	118
J. M. Lunsford	2	215
Mercer	1.2	194
River Bend	1	153
Seneca Ridge	1	150
J. L. Simpson	1	145
Smart's Mill	1	105
Sterling	1	103
Stone Hill	2	213
Trailside	1	136
Willard	1	105

Loudoun County Public Schools
FY21 School Board Questions
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Item Number	Board Member	Staff Assignment	Date of Request
166	Serotkin	Willoughby	1/17/20

What would the cost be to provide full time employees with 8 weeks of Paid Family Leave, in a similar manner as DCPS?

Currently, LCPS does not provide a separate paid family leave benefit. LCPS, in accordance with the Family Medical Leave Act (FMLA), does provide unpaid leave for maternity, paternity, adoptions, foster care, medical leave for a family member and medical leave for oneself. Also, LCPS offers short-term disability benefits for certain situations. Due to uncertainty of how the short-term disability program would be administered with the introduction of a new paid leave benefit, it is recommended that this be reviewed outside of the budget process.

Item Number	Board Member	Staff Assignment	Date of Request
167	Corbo	Ellis	1/17/20

Please provide teacher feedback from programs - surveys, etc. What process is used and what data is collected to evaluate a program at the end of the school year? For example: Lucy Calkins We started the program ___date___, at ____ list schools__, feedback from teachers and test scores after year one, two, three etc. If we are not using this format what format are we using to track and record the impact of our programs: One to One Technology, PBL, One to the World, PL, Go Math, etc.

The Research Office provides data analysis and reports, program planning and evaluation, survey design and analysis, and technical assistance for school improvement to better inform decisions, advance teaching, and improve learning in Loudoun County Public Schools. The office collects, analyzes, and reports student data in multiple formats upon request by the Loudoun County School Board, school and central office staff, and other stakeholders (including FOIA requests).

The Research Offices conducts formative and summative evaluations of new and established instructional programs administered within LCPS. The methods for reviewing these programs vary depending on the research questions, program design, and reporting requirements. To inform program staff and other key stakeholders of program effectiveness, we complete evaluation briefs and annual reports. Due to the size of the Research Office (1 Supervisor, 1 Research Assistant, 1 Data Analyst, 1 Program Analyst), staff prioritizes program evaluations to be done each year. Sample evaluation briefs and reports from the past several years can be found at https://www.lcps.org/page/1997.

Item Number	Board Member	Staff Assignment	Date of Request
168	**Corbo**	**Ellis**	**1/17/20**

Please provide a list of students who are not reading on grade level broken down per school over the past 5 years.

Below is a table of all LCPS schools and the Reading SOL pass rates for the past five years. In LCPS, there have been slight decreases in Reading SOL proficiency between 2015-16 and 2018-19. These patterns are also reflected throughout other divisions across Virginia. LCPS uses more than the Reading SOL to determine readiness and reading level, including the Measures of Academic Progress (MAP), PALS and DRA data. LCPS achieved greater than projected growth in Math and Reading according to MAP Fall-Spring growth scores for 2018-19, which was the first year MAP data was available for all elementary and middle schools. The DRA and PALS data indicate slight decreases in student readiness in the Spring for 2014-15 through 2018-19. This data was provided in response to question 158.

% of Students Reading Below Grade Level-Failure Rate on Reading SOLs by School	2014-2015	2015-2016	2016-2017	2017-2018	2018-2019
Aldie Elementary	11.94	12.99	14.86	25.68	20.9
Algonkian Elementary	14.17	16.07	12.5	13.06	15.87
Arcola Elementary	12.35	11.83	13.46	15.02	16.7
Ashburn Elementary	15.41	14.11	13.65	20.35	19.61
Ball's Bluff Elementary	20.97	21.6	20.45	20.47	16.83
Banneker Elementary	22.09	12.5	13.51	20	17.72
Belmont Ridge Middle	6.7	9.21	9.15	8.59	10.53
Belmont Station Elementary	12.1	9.66	6.93	10.85	9.81
Blue Ridge Middle	12.29	10.12	7.89	11.22	15.37
Brambleton Middle	NA	NA	NA	7.82	10.75
Briar Woods High	5.48	4.04	2.7	1.93	3.42
Broad Run High	4.87	6.86	3.81	4.66	6.65
Buffalo Trail Elementary	10.43	12.39	15.74	15.16	20.51
Cardinal Ridge Elementary	10.22	7.14	8.32	8.35	13.53
Catoctin Elementary	20.38	16	16.21	26.98	26.33
Cedar Lane Elementary	17.12	15.26	15.03	17.43	18.32
Cool Spring Elementary	19.43	15.49	22.19	33.33	32.18
Countryside Elementary	16.61	18.13	22.89	25.47	24.4
Creighton's Corner Elementary	15.59	14.8	12.77	12.67	15.63
Discovery Elementary	13.09	10.53	13.87	15.9	19.22
Dominion High	4.69	9.97	8.02	11.31	13.35
Dominion Trail Elementary	15.51	19.24	16.25	23.59	24.25
Eagle Ridge Middle	8.43	8.33	7.85	7.45	7.39
Emerick Elementary	4.83	5.28	5.98	6.67	3.37
Evergreen Mill Elementary	14.29	11.95	8.61	17.32	20.82
Farmwell Station Middle	5.75	7	7.62	8.18	13.01
Forest Grove Elementary	29.5	27.82	33.6	28.68	29.55
Frances Hazel Reid Elementary	25.27	20.05	15.72	25.82	30.99
Frederick Douglass Elementary	17.28	16.47	23.84	31.14	34.59
Freedom High	6.72	3.8	4.77	4.06	3.32
Goshen Post Elementary	NA	NA	NA	NA	11.91
Guilford Elementary	22.48	21.37	28.74	44.83	43.12
Hamilton Elementary	10.53	5.68	13.95	8.99	24.49
Harmony Middle	15.03	13.48	17.12	11.09	15.79
Harper Park Middle	12.15	11	12.51	11.86	14.57
Heritage High	7.42	6.43	10.62	12.53	12.03
Hillsboro Charter School	NA	NA	17.39	19.12	19.72
Hillsboro Elemenary	21.88	20	NA	NA	NA
Hillside Elementary	17.66	11.62	12.22	9.98	19.08
Horizon Elementary	13.71	14.63	17.73	22.73	22.19
Hutchison Farm Elementary	15.63	14.32	15.85	19.57	20.45
J. Lupton Simpson Middle	16.67	13.52	11.41	14.27	18.9

% of Students Reading Below Grade Level-Failure Rate on Reading SOLs by School	2014-2015	2015-2016	2016-2017	2017-2018	2018-2019
J. Michael Lunsford Middle	7.53	8.09	7.3	8.7	8.09
John Champe High	1.52	6.28	5.38	4.01	5.64
John W. Tolbert Jr. Elementary	15.93	12.75	13.81	15.05	18.26
Kenneth W.Culbert Elementary	11.81	12.77	10.93	12.9	19.64
Leesburg Elementary	20	23.67	26.69	31.12	35.69
Legacy Elementary	9.85	9	9.23	7.11	10.85
Liberty Elementary	13.13	10.62	12.87	15.02	16.82
Lincoln Elementary	12.82	12	5.77	9.09	2.13
Little River Elementary	10.09	9.41	8.51	11.59	15.09
Loudoun County High	2.54	7.92	6.15	10.91	11.75
Loudoun Valley High	4.01	8.26	6.21	9.22	9.15
Lovettsville Elementary	22.71	21.65	20	15.77	14.73
Lowes Island Elementary	9.5	9.35	8.13	10.42	11.04
Lucketts Elementary	13.64	16.67	16.07	22.16	16.56
Madison's Trust Elementary	NA	NA	8.61	9.62	10.24
Meadowland Elementary	14.65	18.48	16.51	20.37	25.24
Mercer Middle	10.96	9.14	8.91	8.37	9.18
Middleburg Community Charter School	24.39	18.18	11.11	16.67	14.06
Mill Run Elementary	9.3	7.14	7.14	9.77	9.32
Moorefield Station Elementary	14.23	11.11	11.58	13.74	13.31
Mountain View Elementary	14.75	13.19	14.19	20.85	20.3
Newton-Lee Elementary	11.13	12.29	8.06	11.5	12.81
Park View High	13.13	17.07	18.5	23.28	24.03
Pinebrook Elementary	9.31	10.88	12.42	14.69	12.96
Potomac Falls High	3.16	6.04	10.17	8.17	6.9
Potowmack Elementary	22.44	19.12	21.65	19.87	32.35
River Bend Middle	15.12	12.52	13.28	12.56	13.99
Riverside High	NA	4.37	4.55	3.17	5.54
Rock Ridge High	3.23	4.79	5.03	8.16	8.73
Rolling Ridge Elementary	19.69	19.12	21.63	28.93	35.36
Rosa Lee Carter Elementary	9.5	9.29	12.19	10.25	13.5
Round Hill Elementary	10.07	10.65	16.56	13.68	15.79
Sanders Corner Elementary	11.18	11.39	14.38	13.31	15.7
Seldens Landing Elementary	12.59	10.98	10.53	11.58	17.72
Seneca Ridge Middle	19.37	18.34	20.25	19.36	20.61
Smart's Mill Middle	17.81	19.42	18.83	20.09	25
Sterling Elementary	30.83	27.66	23.18	38.91	39.74
Sterling Middle	27.05	24.58	27.64	29.52	38.48
Steuart W. Weller Elementary	18.44	15.73	16.08	18.91	21.94
Stone Bridge High	4.09	3.85	3.23	2.98	7.51
Stone Hill Middle	9.44	9.81	9.25	8.63	10.07
Sugarland Elementary	37.83	22.33	25.22	40.36	42.27

168 (continued)

% of Students Reading Below Grade Level-Failure Rate on Reading SOLs by School	2014-2015	2015-2016	2016-2017	2017-2018	2018-2019
Sully Elementary	28.18	27.83	34.22	43.66	54.34
Sycolin Creek Elementary	8.96	6.81	9.59	9.25	11.52
Trailside Middle	10.78	9.19	8.02	9.36	10.2
Tuscarora High	6.89	7.09	10.85	10.43	11.56
Waterford Elementary	8.25	6.02	14.47	8.14	9.68
Willard Intermediate	NA	NA	NA	NA	12.3
Woodgrove High	4.26	6.08	4.79	6.94	7.4

Loudoun County Public Schools
FY21 School Board Questions
January 30, 2020

Item Number	Board Member	Staff Assignment	Date of Request
169	**Corbo**	**Ellis**	**1/13/20**

If we continue the gifted model, have we need to provide classroom space for FUTURA students. Is it possible to require a space in each school for the FUTURA program?

As we continue the transition to the school-based, collaborative gifted model, the number of FUTURA centers will decrease. Once there is a complete transition, there will not be a need for FUTURA center classrooms. Gifted resource teachers will provide "push-in" support to general education classrooms. However, each school will need a space for the enrichment instruction, which is part of the new program model. This instruction is approximately two to four hours per week of small group (fewer than 10 students at a time) instruction. This space could be a shared classroom, library or other space. In the transition schools, it has worked well in a shared space such as a STEM lab or other flexible space.

170	**Corbo**	**Scheivert**	**1/27/20**

Please provide your overall IT equipment plan with itemized costs per school starting from FY16, 17, 18, 19, 20, 21, 22 including into the future as far as you have planned. The board should be able to see what schools have been refreshed, the schedule, lifecycle, and cost.

The information is provided on the following pages.

Summary of Device Expenditures Since FY16

Year	Item	Amount	Note
FY16	Instructional Devices	$6,803,666	
	Loudoun Creates	$1,084,751	
	3.6 to 1 True-up	$427,940	
FY17	Personalized Learning and Loudoun Creates	$5,723,807	
	3.6 to 1 True-up and Refresh	$5,054,981	
FY18	Personalized Learning Expansion	$1,404,208	
	Loudoun Creates Expansion	$1,406,558	
	FY19 Instructional Device Deployment	$11,022,345	Funding came from both FY18 and FY19 (Expedited first year of 1:1 devices)
	Teacher Devices	$4,655,671	
FY19	Instructional Devices	$6,200,069	
	Admin Devices	$2,083,386	
	Teacher Devices	$2,718,914	
FY20	Instructional Devices	$9,105,022	
	Admin Devices	$909,234	To date
	Teacher Devices	$1,107,108	Estimated spend for Spring 2020.
	Collaboration Monitor Refresh	$4,159,827	

Notes:

In FY16, FY17, and FY18 Admin devices were replaced throughout the entire year. Project plans and other documentation is not available.

This file summarizes project-based efforts and does not capture smaller projects or normal replacement and additional device purchases that are made throughout the year.

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IWB Install History

School	school total	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Academy of Science	10								10			
Aldie	7				3	4						
Algonkian	37				10	27						
Arcola	44	44										
Ashburn	35				13	22						
Balls Bluff	36				15	21						
Banneker	12				3	9						
Belmont Ridge	67			66								1
Belmont Station	49							49				
Blue Ridge	139		68								70	1
Briar Woods	82		82									
Broad Run	147		79									68
Buffalo Trail	52				52							
Cardinal Ridge	52								52			
Catoctin	34				12	22						
Cedar Lane	44			2	11	31						
Cool Spring	39				13	26						
Cornwall Hospital	5					5						
Countryside	43				12	31						
Creightons Corner	50									50		
Discovery	51							51				
Dominion High	73		73									
Dominion Trail	34			6	14	14						
Douglass	21			6	14							
Eagle Ridge	66			66								
Emerick	30				10	19						
Evergreen Mill	38				13	25						
Farmwell Station	65			65								
Forest Grove	38				20	18						
Francis Hazel Reid	45				16	29						
Frederick Douglass	51						51					
Freedom	83		82									1
Guilford	33		13		20							
Hamilton	16				6	10						
Harmony	66			66								
Harper Park	64			64								

School	school total	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Heritage	89		89									
Hillsboro	9				3	6						
Hillside	41				12	28						1
Horizon	44				14	30						
Hutchison	46				13	33						
J. Michael Lundsford	93					93						
John Champe	105						105					
Kenneth Culbert	51			51								
Leesburg	36				13	23						
Legacy	53		43	10								
Liberty	53									53		
Lincoln	10		1		2	7						
Little River	46				17	29						
Loudoun County	69		69									
Loudoun Valley	69		68			1						
Lovettsville	34				12	21						1
Lowes Island	38				13	25						
Lucketts	14				5	9						
Madison's Trust	54										54	
Meadowland	28				8	20						
Mercer	70		64	3		3						
Middleburg	7				2	5						
Mill Run	45			1	15	29						
Monroe	18		2	16								
Moorefield	51							51				
Mountain View	46				12	34						
Newton Lee	53								53			
Parkview	76		76									
Pinebrook	53			8						45		
Potomac Falls	79		79									
Potowmack ES	37				11	26						
River Bend	66			66								
Riverside	0											
Rock Ridge	106								104			2
Rolling Ridge	37	37										
Rosa Lee Carter	44	44										
Round Hill	38				11	27						
Sanders Corner	35				15	20						
Seldens	49				16	33						
Seneca Ridge	72									72		

School	school total	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Heritage	89		89									
Hillsboro	9				3	6						
Hillside	41				12	28						1
Horizon	44				14	30						
Hutchison	46				13	33						
J. Michael Lundsford	93					93						
John Champe	105						105					
Kenneth Culbert	51			51								
Leesburg	36				13	23						
Legacy	53		43	10								
Liberty	53									53		
Lincoln	10		1		2	7						
Little River	46				17	29						
Loudoun County	69		69									
Loudoun Valley	69		68			1						
Lovettsville	34				12	21						1
Lowes Island	38				13	25						
Lucketts	14				5	9						
Madison's Trust	54										54	
Meadowland	28				8	20						
Mercer	70		64	3		3						
Middleburg	7				2	5						
Mill Run	45			1	15	29						
Monroe	18		2	16								
Moorefield	51							51				
Mountain View	46				12	34						
Newton Lee	53								53			
Parkview	76		76									
Pinebrook	53			8						45		
Potomac Falls	79		79									
Potowmack ES	37				11	26						
River Bend	66			66								
Riverside	0											
Rock Ridge	106								104			2
Rolling Ridge	37	37										
Rosa Lee Carter	44	44										
Round Hill	38				11	27						
Sanders Corner	35				15	20						
Seldens	49				16	33						
Seneca Ridge	72									72		

School	school total	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Simpson	72		72									
Smarts Mill	64			63		1						
Sterling ES	32			9	23							
Sterling Middle	74									74		
Steuart Weller	52		52									
Stone Hill	66	66										
Stonebridge	86		86									
Sugarland	74	37									37	
Sully	33			7	26							
Sycolin Creek	40	40										
Tolbert	43			15	28							
Trailside	80								79			1
Tuscarora	97				97							
Waterford	13			4	9							
Woodgrove	89				87							2
Totals		**268**	**1098**	**594**	**721**	**816**	**156**	**151**	**298**	**294**	**161**	**77**

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FY 16 Instructional Device Refresh

	$892	$892	$770	$770	$2,300
Summer Refresh Schools	FY16 Desktops	Staff Desktops	Total Staff Laptops	Total Student Laptops	FY16 Laptop Carts
Ball's Bluff ES (BAL)	0		40	169	6
Buffalo Trail ES (BUF)	0		58	196	8
Briar Woods HS (BWH)	132	11	129	413	18
Eagle Ridge MS (ERM)	104	8	77	252	8
Freedom HS (FHS)	73	5	201	351	19
Forest Grove ES (FOR)	0		47	162	6
Farmwell Station MS (FWS)	110	11	79	283	10
Hutchison Farm ES (HUT)	0		51	185	7
Kenneth W. Culbert ES (KWC)	0		52	188	7
Legacy ES (LEG)	0		58	173	7
Little River ES (LIT)	0		49	179	6
Mill Run ES (MIL)	0		50	200	8
Newton-Lee ES (NLE)	0		58	196	8
Potomac Falls HS (PFH)	91	6	116	370	16
Potowmack ES (PMK)	0		42	163	6
Pinebrook ES (PNB)	0		59	197	8
River Bend MS (RBM)	138	11	76	220	8
Sanders Corner ES (SAN)	0		41	167	6
Seldens Landing ES (SEL)	0		54	194	8
Tuscarora HS (THS)	133	7	122	419	16
John W. Tolbert Jr ES (TOL)	0		48	190	7
Woodgrove HS (WHS)	136	11	113	403	16
SubTotal:	917	70	1620	5270	209
Spares:	19	2	33	106	5
Total:	936	72	1653	5376	214
	$834,912	$64,224	$1,272,810	$4,139,520	$492,200

$6,803,666

FY16 Loudoun Creates Deployment

School	$ 378 Dell Venue	$ 2,628 Charging Cart
Algonkian ES	25	1
Arcola ES	25	1
Aldie ES	25	1
Ashburn ES	25	1
Banneker ES	25	1
Briar Woods HS	25	1
Belmont Ridge MS	25	1
Belmon Station ES	25	1
Blue Ridge MS	25	1
Broad Run HS	25	1
Balls Bluff ES	25	1
Buffalo Trail ES	25	1
Catoctin ES	25	1
Cool Spring ES	25	1
Cardinal Ridge ES	25	1
Countryside ES	25	1
Cedar Lane ES	25	1
Creightons Corner ES	25	1
Discovery ES	25	1
Dominion HS	25	1
Dominion Trail ES	25	1
Douglass School	25	1
Evergreen Mill ES	25	1
Eagle Ridge MS	25	1
Emerick ES	25	1
Forest Grove ES	25	1
Frederick Douglass ES	25	1
Frances Hazel Reid ES	25	1
Farmwell Station MS	25	1
Freedom HS	25	1
Guilford ES	25	1
Hutchinson Farm ES	25	1
Harper Parm MS	25	1
Horizon ES	25	1
Heritage HS	25	1
Hillside ES	25	1
Hamilton ES	25	1
Harmony MS	25	1
Hillsboro ES	25	1
Lunsford MS	25	1
Tobert ES	25	1

School	Dell Venue	Charging Cart
Simpson MS	25	1
John Champe HS	25	1
Kenneth Culbert ES	25	1
Little River ES	25	1
Leesburg ES	25	1
Lowes Island ES	25	1
Lincoln ES	25	1
Legacy ES	25	1
Loudoun Valley HS	25	1
Lovetsville ES	25	1
Loudoun County HS	25	1
Lucketts ES	25	1
Liberty ES	25	1
Mercer MS	25	1
Middleburg ES	25	1
Mill Run ES	25	1
Monroe Tech	25	1
Moorefield Station ES	25	1
Meadowland ES	25	1
Mountain View ES	25	1
Newton Lee ES	25	1
Pinebrook ES	25	1
Parkview HS	25	1
Potomac Falls HS	25	1
Potowmack ES	25	1
River Bend MS	25	1
Riverside HS	25	1
Rock Ridge HS	25	1
Rosa Lee Carter ES	25	1
Round Hill ES	25	1
Rolling Ridge ES	25	1
Sterling ES	25	1
Sterling MS	25	1
Sully ES	25	1
Sugarland ES	25	1
Seneca Ridge MS	25	1
Smarts Mill MS	25	1
Seldons Landing ES	25	1
Steuart Weller ES	25	1
Sycolin Creek ES	25	1
Stone Hill MS	25	1
Sanders Corner ES	25	1
Stone Bridge HS	25	1
Tuscarora HS	25	1

School	Dell Venue	Charging Cart
Trailside MS	25	1
Waterford ES	25	1
Woodgrove HS	25	1
SubTotal:	2200	88
Spares:	44	2
Total:	2244	90

$ 848,232 $ 236,519 $1,084,751

FY16 3.6 to 1 True-up Deployment

Location	Laptops	Carts
Mill Run ES	13	0
Pinebrook ES	5	0
Creighton's Corner ES	18	0
Rosa Lee Carter ES	15	0
Hutchison Farm ES	17	0
Potowmack ES	48	1
John W. Tolbert ES	13	1
Seldens Landing ES	32	1
Belmont Station ES	72	3
Sanders Corner ES	10	1
Eagle Ridge MS	48	2
Legacy ES	73	3
Buffalo Trail ES	92	3
Little River ES	36	2

SubTotal:	492	17
Spares:	10	1
Total:	502	18

$ 770 $ 2,300

$ 386,540 $ 41,400 $427,940

School	PL Devices	Teacher Devices	LC Devices	Total Devices $ 523	MacBook Pro $ 1,019	Mac Cart $ 1,800	20 Cart $ 1,180	30 Cart $ 1,202	Charging Station $ 80	Apple TV Bracket $ 35	AppleTV Lock $ 28	Kanex Adapter $ 60	AppleTV $ 199	Cache Server $ 1,238	Blue Case $ 69	Green Case $ 69	Black Case $ 69
Belmont Station ES	270	18	18	334	0	0	18	1	3	18	18	18	18	1	49	280	19
Catoctin ES	225	15	104	344	0	0	15	3	3	15	15	15	15	1	110	233	16
Discovery ES	300	20	12	332	0	0	20	0	2	20	20	20	20	1	13	311	21
Forest Grove ES	180	12	74	266	0	0	12	2	3	12	12	12	12	1	78	187	13
John W. Tolbert ES	240	16	40	296	0	0	16	1	2	16	16	16	16	1	42	249	17
Rolling Ridge ES	210	14	12	236	0	0	14	0	2	14	14	14	14	1	13	218	15
Rosa Lee Carter ES	315	21	12	348	0	0	21	0	2	21	21	21	21	1	13	327	23
Sterling ES	180	12	0	192	0	0	12	0	0	12	12	12	12	1	0	187	13
Sully ES	165	11	28	204	0	0	11	1	0	11	11	11	11	1	30	171	12
Waterford ES	45	3	46	94	0	0	3	1	3	3	3	3	3	1	49	47	4
Belmont Ridge MS	570	38	46	654	0	0	38	1	3	38	38	38	38	1	49	590	40
Farmwell Station MS	585	39	46	670	0	0	39	1	3	39	39	39	39	1	49	606	41
J M Lunsford MS	750	50	40	840	0	0	50	1	2	50	50	50	50	1	42	777	53
River Bend MS	600	40	56	696	0	0	40	2	0	40	40	40	40	1	59	622	42
Trailside MS	585	39	6	630	0	0	39	0	1	39	39	39	39	1	7	607	41
IRC - Admin Building	30	20	30	80	25	0	1	2	0	2	2	2	2	0	32	32	21
Spares	102	100	112	314	0	0	1	6	3				30	0	181	106	109
Aldie ES	0	0	6	6	0	0	0	0	1						7	0	0
Algonkian ES	0	0	46	46	0	0	0	0	3						49	0	0
Arcola ES	0	0	18	18	0	0	0	1	3						19	0	0
Balls Bluff ES	0	0	40	40	0	0	0	0	2						42	0	0
Banneker ES	0	0	46	46	0	0	0	1	3						49	0	0
Blue Ridge MS	0	0	28	28	0	0	0	1	0						30	0	0
Broad Run HS	0	0	28	28	0	0	0	1	0						30	0	0
Cardinal Ridge ES	0	0	40	40	0	0	0	1	2						42	0	0
Cedar Lane ES	0	0	64	64	0	0	0	1	6						68	0	0
John Champe HS	0	0	6	6	0	0	0	0	1						7	0	0
Cool Spring ES	0	0	46	46	0	0	0	1	3						49	0	0
Countryside ES	0	0	40	40	0	0	0	1	2						42	0	0
Dominion HS	0	0	74	74	0	0	0	1	3						78	0	0
Dominion Trail ES	0	0	46	46	0	0	0	1	3						49	0	0
Douglass School	0	0	34	34	0	0	0	1	1						36	0	0
Eagle Ridge MS	0	0	52	52	0	0	0	1	4						55	0	0
Emerick ES	0	0	40	40	0	0	0	1	2						42	0	0
Evergreen Mill ES	0	0	84	84	0	0	0	3	0						89	0	0
Frances Hazel Reid ES	0	0	40	40	0	0	0	1	2						42	0	0
Frederick Douglass ES	0	0	12	12	0	0	0	0	2						13	0	0
Freedom HS	0	0	6	6	0	0	0	0	1						7	0	0
Guilford ES	0	0	6	6	0	0	0	0	1						7	0	0
Hamilton ES	0	0	46	46	0	0	0	1	3						49	0	0
Harmony MS	0	0	40	40	0	0	0	1	2						42	0	0
Harper Park MS	0	0	18	18	0	0	0	0	3						19	0	0
Heritage HS	0	0	12	12	0	0	0	0	2						13	0	0
Hillside ES	0	0	18	18	0	0	0	0	3						19	0	0
Horizon ES	0	0	12	12	0	0	0	0	2						13	0	0
Hutchison Farm ES	0	0	12	12	0	0	0	0	2						13	0	0
J L Simpson MS	0	0	40	40	0	0	0	1	2						42	0	0
Kenneth W. Culbert ES	0	0	30	30	0	0	0	0	5						32	0	0
Legacy ES	0	0	12	12	0	0	0	0	2						13	0	0
Liberty ES	0	0	34	34	0	0	0	1	1						36	0	0
Little River ES	0	0	12	12	0	0	0	0	2						13	0	0
Lovettsville ES	0	0	46	46	0	0	0	1	3						49	0	0
Lowes Island ES	0	0	40	40	0	0	0	1	2						42	0	0

School	PL Devices	Teacher Devices	LC Devices	Total Devices	MacBook Pro	Mac Cart	20 Cart	30 Cart	Charging Station	Apple TV Bracket	AppleTV Lock	Kanex Adapter	AppleTV	Cache Server	Blue Case	Green Case	Black Case
Madison's Trust ES	0	0	0	52	52	0	0	1	4						55	0	0
Meadowland ES	0	0	0	40	40	0	0	1	2						42	0	0
Mercer MS	0	0	0	28	28	0	0	1	0						30	0	0
Mill Run ES	0	0	0	46	46	0	0	1	3						49	0	0
Moorefield Station ES	0	0	0	46	46	0	0	1	3						49	0	0
Newton Lee ES	0	0	0	6	6	0	0	0	1						7	0	0
Park View HS	0	0	0	40	40	0	0	1	2						42	0	0
Pinebrook ES	0	0	0	12	12	0	0	0	2						13	0	0
Potowmack ES	0	0	0	34	34	0	0	1	1						36	0	0
Riverside HS	0	0	0	28	28	0	0	1	0						30	0	0
Rock Ridge HS	0	0	0	12	12	0	0	0	2						13	0	0
Round Hill ES	0	0	0	34	34	0	0	1	1						36	0	0
Seldens Landing ES	0	0	0	18	18	0	0	0	3						19	0	0
Seneca Ridge MS	0	0	0	6	6	0	0	0	1						7	0	0
Smarts Mill MS	0	0	0	18	18	0	0	0	3						19	0	0
Sterling MS	0	0	0	40	40	0	0	1	2						42	0	0
Steuart W. Weller ES	0	0	0	12	12	0	0	0	2						13	0	0
Stone Bridge HS	0	0	0	12	12	0	0	0	2						13	0	0
Stone Hill MS	0	0	0	68	68	0	0	2	2						72	0	0
Sycolin Creek	0	0	0	34	34	0	0	1	1						36	0	0
Tuscarora HS	0	0	0	6	6	0	0	0	1						7	0	0
Woodgrove HS	0	0	0	6	6	0	0	0	1						7	0	0
SubTotal:	5352	468	2482	8302	25	1	350	60	150	350	350	350	380	15	2700	5550	500
Spares:			167	167	1	1	7	2	3	7	7	7	8	1	54	111	10
Total:				8469	26	2	357	62	153	357	357	357	388	16	2754	5661	510
				$ 4,429,033	$ 26,494	$ 3,600	$ 421,260	$ 74,493	$ 12,278	$ 12,406	$ 9,996	$ 21,402	$ 77,212	$ 19,808	$ 190,026	$ 390,609	$ 35,190

$ 5,723,807

FY17 3.6 to 1 and Instructional Device Deployment

Schools	$ 755 LT 3350	$ 1,138 LT 6440	$ 831 Desktops	$ 126 Monitors	$ 13 Keyboards	$ 13 Mice	$ 31 Sound Bars	$ 139 Docking Stations	$ 2,300 Carts
Arcola ES	141	55	0	42	42	42	0	42	6
Dominion Trail ES	129	43	0	37	37	37	0	37	6
Evergreen Mill ES	176	46	0	38	38	38	0	38	5
Frederick Douglass ES	141	58	0	50	50	50	0	50	6
Guilford ES	133	50	0	34	34	34	0	34	6
Harmony MS	122	77	119	190	190	190	119	71	5
Heritage HS	201	100	193	300	300	300	193	107	10
J.M. Lunsford MS	139	102	150	240	240	240	150	90	6
John Champe HS	155	103	249	384	384	384	249	135	9
Lowes Island ES	127	41	0	38	38	38	0	38	6
Park View HS	189	118	136	248	248	248	136	112	9
Rolling Ridge ES	147	51	0	37	37	37	0	37	5
Rosa Lee Carter ES	163	62	0	45	45	45	0	45	7
Stone Hill MS	139	103	152	230	230	230	152	78	6
Sugarland ES	147	49	0	38	38	38	0	38	5
Sycolin Creek ES	130	48	0	39	39	39	0	39	6
part time teachers TADs not yet allocated to schools (this will be split between retro/refresh - don't have split yet)	0	318							
SubTotal:	2379	1424	999	1990	1990	1990	999	991	103
Spares:	48	29	20	40	40	40	20	20	3
Total:	2427	1453	1019	2030	2030	2030	1019	1011	106

$ 1,832,385 $ 1,653,296 $ 846,921 $ 255,760 $ 25,558 $ 25,558 $ 31,589 $ 140,114 $ 243,800 $ 5,054,981

FY18 Loudoun Creates Deployment

	$ 1,202	$ 523
School Name	**Carts**	**Ipads**
Aldie ES	1	28
Algonkian ES	1	28
Arcola ES	1	28
Ashburn ES	1	28
Ball's Bluff ES	1	28
Belmont Ridge MS	1	28
Belmont Station ES	1	28
Blue Ridge MS	1	28
Brambleton MS	2	56
Briar Woods HS	1	28
Broad Run HS	1	28
Buffalo Trail ES	1	28
Cardinal Ridge ES	1	28
Catoctin ES	1	28
Cedar Lane ES	2	56
Cool Spring ES	1	28
Countryside ES	1	28
Creightons Corner ES	1	28
Discovery ES	1	28
Dominion HS	1	28
Dominion Trail ES	2	56
Douglass Alternative Education Center	1	28
Eagle Ridge MS	1	28
Emerick ES	1	28
Evergreen Mill ES	2	56
Farmwell Station MS	2	56
Forest Grove ES	2	56
Frances Hazel Reid ES	2	56
Frederick Douglass ES	1	28
Freedom HS	1	28
Guilford ES	1	28
Hamilton ES	1	28
Harmony MS	1	28
Harper Park MS	2	56
Hillside ES	1	28
Horizon ES	1	28
Hutchison Farm ES	1	28
J. L. Simpson MS	1	28
J. Michael Lunsford MS	1	28
John W. Tolbert, Jr. ES	1	28
Kenneth W. Culbert ES	1	28
Legacy ES	1	28
Liberty ES	2	56
Lincoln ES	1	28
Little River ES	1	28
Lovettsville ES	1	28
Lowes Island ES	1	28
Madison's Trust ES	1	28
Mercer MS	1	28

School Name	Carts	Ipads
Mill Run ES	1	28
Moorefield Station ES	1	28
Newton-Lee ES	1	28
Park View HS	2	56
Pinebrook ES	1	28
Potowmack ES	2	56
River Bend MS	2	56
Riverside HS	1	28
Rock Ridge HS	2	56
Rosa Lee Carter ES	1	28
Round Hill ES	1	28
Sanders Corner ES	1	28
Seldens Landing ES	1	28
Seneca Ridge MS	1	28
Smart's Mill MS	1	28
Sterling MS	1	28
Steuart W. Weller ES	1	28
Stone Hill MS	1	28
Sugarland ES	1	28
Sully ES	1	28
Sycolin Creek ES	1	28
Trailside MS	2	56
Tuscarora HS	1	28
Woodgrove HS	1	28
SubTotal:	87	2436
Spares:	2	49
Total:	89	2485

$ 106,978 $ 1,299,580 $ 1,406,558

FY18 Personalized Learning Deployment

School Code	FY18 PL Schools	Nbr Carts	Nbr Devices
		$ 1,180	$ 295
EME	Emerick ES	13	208
ERM	Eagle Ridge MS	43	688
EVE	Evergreen Mill ES	12	192
FDE	Frederick Douglas ES	17	272
GUI	Guilford ES	14	224
MTE	Madison's Trust ES	16	256
SAN	Sanders Corner ES	13	208
SHM	Stone Hill MS	31	496
SMM	Smart's Mill MS	37	592
SRM	Seneca Ridge MS	37	592
	SubTotal:	233	3728
	Spares:	5	75
	Total:	238	3803

$ 280,840 $ 1,123,368 $ 1,404,208

FY18 Teacher Device Deployement

	$ 1,218.75	$ 968.75	$ 148.00
Summer 2017 Refresh Schools	**TAD LT5470**	**Desktop 5040 (w/ KM)**	**Docking station**
Acadamy of Science (located in	0	0	14
Aldie ES	56	0	8
Algonkian ES	56	0	39
Ashburn ES	56	0	37
Banneker ES	56	0	13
Belmont Ridge MS	99	3	64
Belmont Station ES	56	0	52
Blue Ridge MS	99	3	66
Broad Run HS	142	10	88
Cardinal Ridge ES	56	0	54
Catoctin ES	56	0	36
Cedar Lane ES	56	0	47
Cool Spring ES	56	0	41
Countryside ES	56	0	46
Creighton's Corner ES	56	0	53
Discovery ES	56	0	54
Dominion HS	142	10	82
Douglas School	0	3	26
Emerick ES	56	0	31
Frances Hazel Reid ES	56	0	48
Hamilton ES	56	0	17
Harper Park MS	99	3	62
Hillside ES	56	0	42
Horizon ES	56	0	47
J. L. Simpson MS	99	3	70
Lessburg ES	56	0	37
Liberty ES	56	0	56
Lincoln ES	56	0	11
Loudoun County HS	142	10	78
Loudoun Valley HS	99	10	77
Lovettsville ES	56	0	35
Lucketts ES	56	0	15
Meadowland ES	56	0	30
Mercer MS	99	3	68
Monroe Technology Center	0	10	32
Moorefield Station ES	56	0	54
Mountain View ES	56	0	49
Rock Ridge HS	142	10	115
Round Hill ES	56	0	40
Seneca Ridge MS	99	3	70
Smart's MS	99	3	62
Sterling ES	56	0	34
Sterling MS	99	3	72
Steuart W. Weller ES	56	0	55
Stone Bridge HS	142	10	96
Sully ES	56	0	35
Trailside MS	99	3	77
Waterford ES	56	0	14
SubTotal:	3380	100	2349
Spares:	68	2	47
Total:	3448	102	2396

	$ 4,202,250	$ 98,813	$ 354,608	$ 4,655,671

FY18 and FY19 Instructional Device Deployment

School Name	L380	300e	11e M3	P320	PS20C	iPad	PS2S	300e Power	11e Power	USB-C Dock	Keyboard / Mouse	P24Q Monitor	22" Monitor	Barcode Scanner	Power Tower	Travel Hub
	$785	$298	$734	$905	$2,364	$523	$1,353	$19	$19	$148	$27	$204	$152	$139	$46	$54
Academy of Loudoun HS	71	278	101	25	25		471	20			4	25	75	1		71
Aldie ES	10	88		3		20		84		4	4		4	1	4	10
Algonkian ES	42	288				50		98		4	4		4	1	10	42
Ashburn ES	49	389		3		55		28		4	4		4	1	11	49
Banneker ES	14	96		3		15		180		4	4		4	1	3	14
Belmont Ridge MS	90	1304		25						7	7		7	1		90
Belmont Station ES	51									2	2		2	1		51
Blue Ridge MS	74	971		25				148		7	7		7	1		74
Broad Run HS	117	1557		101				234		7	7		7	1		117
Cardinal Ridge ES	64					60				2	2		2	1		64
Catoctin ES	50	428		3				100		4	4		4	1	12	50
Cedar Lane ES	55	475		3		75		110		4	4		4	1	15	55
Cool Springs ES	52									2	2		2	1		52
Countryside ES	62	469		3		65		124		4	4		4	1	13	62
Creighton's Corner ES	64	642		3		135		128		4	4		4	1	27	64
Discovery ES	73	515		3		85		146		4	4		4	1	17	73
Dominion HS	119	1546		109				238		7	7		7	1		119
Douglass HS	26									2	2		2	1		26
Emerick ES	36	289		3		25		72		4	4		4	1	5	36
Frances Hazel Reid ES	56	414		3		65		112		4	4		4	1	13	56
Goshen Post ES	79	548				105		158		4	4		4	1	16	79
Hamilton ES	18	105		3		15		36		4	4		4	1	3	18
Harmony MS	78	1093		25				156		7	7		7	1		78
Harper Park MS	86	1066		25				172		7	7		7	1		86
Hillside ES	51	495		3		70		102		4	4		4	1	14	51
Horizon ES	51									2	2		2	1		51
J. Lupton Simpson MS	83	1102		25				166		7	7		7	1		83
John Champe HS	141	1734		103			30	282		7	7		7	1		141
Leesburg ES	46	320		3		45		92		4	4		4	1	9	46
Liberty ES	67									2	2		2	1		67
Lincoln ES	11	53		3		15		22		4	4		4	1	3	11
Loudoun County HS	116	1478		106				232		7	7		7	1		116
Loudoun Valley HS	98	1340		89				196		7	7		7	1		98
Lovettsville ES	37	321		3		50		74		4	4		4	1	10	37
Lucketts ES	27	193		3		30		54		4	4		4	1	6	27
Meadowland ES	35	40	247	3				16	56	4	4		4	1	8	35
Mercer MS	116	1378		25		70		232		7	7		7	1		116
Mountain View ES	49	409		3				98		4	4		4	1	14	49
River Bend MS	88	1240		25				176		7	7		7	1		88
Rock Ridge HS	134	2235		89				268		7	7		7	1		134
Seneca Ridge MS	80	1021		25				160		7	7		7	1		80
Smart's Mill MS	87	1121		25				174		7	7		7	1		87
Sterling ES	48	289		3		50		96		4	4		4	1	10	48
Sterling MS	96	1037		25				192		7	7		7	1	A	96
Steuart W. Weller ES	59	447		3		70		118		4	4		4	1	14	59
Stone Bridge HS	123	1667		104				246		7	7		7	1		123
Sully ES	51	272		3		40		102		4	4		4	1	8	51
Trailside MS	83	1265		25				166		7	7		7	1		83
Tuscarora HS	115	1529		72			30	230		7	7		7	1		115
Waterford ES	13	99		3		15		26		4	4		4	1	3	13
Willard MS	98	1290						196		7	7		7	1		98
Woodgrove HS	118	1628		87				236		7	7		7	1		118
SubTotal:	3557	36564	348	1229	25	1225	531	6296	56	255	255	25	330	48	248	3461
Spares:	72	732	7	25	1	25	11	126	2	6	6	1	7	1	5	70
Total:	3,629	37,296	355	1,254	26	1,250	542	6,422	58	261	261	26	337	49	253	3,531
	$2,848,765	$11,095,560	$260,694	$1,134,481	$61,458	$653,713	$733,261	$120,413	$1,088	$38,628	$7,070	$5,304	$51,288	$6,811	$11,689	$192,192

$17,222,414

FY19 Admin Device Deployment

School	$ 851.00 L380 Device	$ 17.71 Keyboard	$ 12.00 Mouse	$ 156.25 Monitor	$ 164.85 Dock	$ 67.00 Travel Hub
ALD	5	5	5	5	5	5
ALG	3	3	3	3	3	3
ARC	11	11	11	11	11	11
ASH	6	6	6	6	6	6
BAL	5	5	5	5	5	5
BAN	4	4	4	4	4	4
BEM	19	19	19	19	19	19
BRH	18	18	18	18	18	18
BRM	14	14	14	14	14	14
BST	12	12	12	12	12	12
BUF	10	10	10	10	10	10
BUS	51	51	51	51	51	51
BWH	25	25	25	25	25	25
CAT	5	5	5	5	5	5
CCE	12	12	12	12	12	12
CED	7	7	7	7	7	7
CRE	7	7	7	7	7	7
CSP	6	6	6	6	6	6
CTY	6	6	6	6	6	6
DCS	10	10	10	10	10	10
DDI	90	90	90	90	90	90
DIS	8	8	8	8	8	8
DMH	24	24	24	24	24	24
DOM	8	8	8	8	8	8
EME	8	8	8	8	8	8
ERM	18	18	18	18	18	18
EVE	6	6	6	6	6	6
FDE	5	5	5	5	5	5
FHR	9	9	9	9	9	9
FHS	23	23	23	23	23	23
FOR	6	6	6	6	6	6
FWS	14	14	14	14	14	14
GUI	7	7	7	7	7	7
HAM	3	3	3	3	3	3
HIL	7	7	7	7	7	7
HLS	7	7	7	7	7	7
HPM	14	14	14	14	14	14
HRM	16	16	16	16	16	16
HRZ	8	8	8	8	8	8
HTH	27	27	27	27	27	27
HUT	9	9	9	9	9	9
INS	60	60	60	60	60	60
JCH	17	17	17	17	17	17
JLS	13	13	13	13	13	13
JML	11	11	11	11	11	11
KWC	6	6	6	6	6	6
LCH	23	23	23	23	23	23
LEE	7	7	7	7	7	7
LEG	11	11	11	11	11	11
LIB	8	8	8	8	8	8
LIN	5	5	5	5	5	5
LIT	9	9	9	9	9	9
LNR	42	42	42	42	42	42
LOV	6	6	6	6	6	6
LOW	7	7	7	7	7	7
LUC	5	5	5	5	5	5
LVH	18	18	18	18	18	18

School	L380 Device	Keyboard	Mouse	Monitor	Dock	Travel Hub
MEA	6	6	6	6	6	6
MID	3	3	3	3	3	3
MIL	6	6	6	6	6	6
MMS	16	16	16	16	16	16
MSE	12	12	12	12	12	12
MTC	6	6	6	6	6	6
MTE	1	1	1	1	1	1
MTV	9	9	9	9	9	9
NLE	10	10	10	10	10	10
PER	39	39	39	39	39	39
PFH	26	26	26	26	26	26
PLN	2	2	2	2	2	2
PMK	8	8	8	8	8	8
PNB	12	12	12	12	12	12
PSV	134	134	134	134	134	134
PVH	29	29	29	29	29	29
RBM	14	14	14	14	14	14
RHL	9	9	9	9	9	9
RLC	10	10	10	10	10	10
RRD	6	6	6	6	6	6
RRH	28	28	28	28	28	28
RVH	15	15	15	15	15	15
SAN	7	7	7	7	7	7
SBH	18	18	18	18	18	18
SBM	2	2	2	2	2	2
SEL	11	11	11	11	11	11
SHM	15	15	15	15	15	15
SMM	10	10	10	10	10	10
SRM	14	14	14	14	14	14
SSV	114	114	114	114	114	114
STC	6	6	6	6	6	6
STE	4	4	4	4	4	4
STM	15	15	15	15	15	15
STU	5	5	5	5	5	5
SUG	7	7	7	7	7	7
SUL	8	8	8	8	8	8
SUP	12	12	12	12	12	12
SYC	9	9	9	9	9	9
THS	27	27	27	27	27	27
TMS	18	18	18	18	18	18
TOL	9	9	9	9	9	9
TRN	67	67	67	67	67	67
WAT	5	5	5	5	5	5
WHS	24	24	24	24	24	24
SubTotal:	1609	1609	1609	1609	1609	1609
Spares:	33	33	33	33	33	33
Total:	1642	1642	1642	1642	1642	1642

$ 1,397,342 $ 29,080 $ 19,704 $ 256,563 $ 270,684 $ 110,014 $ 2,083,386

FY19 Teacher Device Deployment

| | $785 | $54 |
School Name	L380	Travel Hub
Belmont Station ES	0	0
Briar Woods HS	125	125
Cardinal Ridge ES	0	0
Cool Spring ES	2	2
Eagle Ridge MS	80	80
Farmwell Station MS	79	79
Freedom HS	141	141
Horizon ES	0	0
Heritage HS	114	114
Hutchison Farm ES	67	67
Independence HS (Ship to STC)	120	120
Kenneth W. Culbert ES	43	43
Liberty ES	3	3
Mill Run ES	58	58
Moorefield Station ES	63	63
Potomac Falls HS	128	128
Potowmack ES	46	46
Park View HS	134	134
Round Hill ES	41	41
Riverside HS	112	112
Seldens Landing ES	54	54
Stone Hill MS	75	75
Waxpool ES (Ship to STC)	80	80
Aldie ES	1	1
Arcola ES	2	2
Ball's Bluff ES	1	1
Belmont Ridge MS	1	1
Buffalo Trail ES	3	3
Douglass School	1	1
Evergreen Mill ES	1	1
Guilford ES	2	2
Harper Park MS	1	1
John W Tolbert ES	3	3
Legacy ES	1	1
Little River ES	3	3
Madison's Trust ES	13	13
Newton-Lee ES	2	2
Pinebrook ES	1	1
Sanders Corner ES	1	1
Sugarland ES	1	1
SubTotal:	1603	1603
Spares:	33	33
Total:	3239	3239

$2,542,615	$176,299	$2,718,914

FY20 Instructional Device Deployment

School Name	300e $305	11e $742	P330 $1,056	iPad $523	<720Q $644	P52S $1,353	300e Power $19	11e Power $19	USB-C Dock $148	Kbd / Mouse $30	22" Monitor $156	27" Monitor $307	Power Tower $25	55"TV $604	Broadcast $269	Cart $1,275
Academies of Loudoun (AOS/AET)	0	107				229										
Belmont Station ES	444	0	2	87		1	70		2	2	2		19		1	
Briar Woods HS	1,936	30	63			11	298		5	5	5		1		1	
Cardinal Ridge ES	510	0	2	99		1	92		2	2	2		20		1	
Cool Spring ES	369	0	2	82		1	82		2	2	2		18		1	
Eagle Ridge MS	1,292	50	18		64	1	158		5	5	5		0		1	
Farmwell Station MS	1,211	50	18		35	1	158		5	5	5		0		1	
Freedom HS	2,179	0	74			24	318		5	5	5		3		1	
Heritage HS	1,459	0	93	5		21	320		5	5	5	5	3	2	1	
Horizon ES	375	0	2	80		1	66		2	2	2		18		1	
Hutchison Farm ES	500	0	2	108		1	96		2	2	2		23		1	
Independence HS	1,002	0	59			24	242		5	5	5	10	3		1	2
Kenneth W. Culbert ES	341	0	2	61		1	102		2	2	2		14		1	
Liberty ES	653	0	2	108		1	90		2	2	2		22		1	
Little River ES	0	0														
Mill Run ES	497	0	2	82		1	92		2	2	2		17		1	
Moorefield Station ES	211	475	2	12		1		120	2	2	2		24		1	
Park View HS	1,332	0	62			24	282		5	5	5	4	3		1	
Pinebrook ES	0	0														
Potomac Falls HS	1,563	0	72			14	346		5	5	5		3		1	
Potowmack ES	334	0	2	75		1	74		2	2	2		16		1	
Riverside HS	1,969	0	92			16	322		5	5	5	5	3		1	
Round Hill ES	124	254	2	8		1		82	2	2	2		15		1	
Seldens Landing ES	467	0	2	77	62	1	78		2	2	2		16		1	
Stone Hill MS	1,045	50	18			1	168		5	5	5		0		1	
Waxpool ES	496	0	2	105		1	104		2	2	2		22		1	1
Prior year Self-contained and ECSE	97		2	105		1	104		2	2	2		22			
SubTotal:	20406	1016	597	1094	161	380	3662	202	78	78	78	24	285	2	23	3
Spares:	409	21	12	22	4	8	74	5	2	2	2	1	6	1	1	1
Total:	20815	1037	609	1116	165	388	3736	207	80	80	80	25	291	3	24	4
$	$ 6,348,575	$ 769,298	$ 643,335	$ 583,635	$ 106,288	$ 524,917	$ 70,050	$ 3,881	$ 11,840	$ 2,377	$ 12,500	$ 7,682	$ 7,275	$ 1,811	$ 6,456	$ 5,100	$ 9,105,022

FY20 Admin Device Deployment

	$ 851	$ 1,353	$ 18	$ 165	$ 156	$ 12	$ 67
Location	**L380**	**P52s**	**Keyboard**	**Dock**	**Monitor**	**Mouse**	**Travel Hub**
Administration Building	403	5	408	408	408	408	408
ARC	3		3	3	3	3	3
BAL	1		1	1	1	1	1
BAM	19		19	19	19	19	19
BRH	2		2	2	2	2	2
BUF	7		7	7	7	7	7
BWH	17		17	17	17	17	17
CAT	1		1	1	1	1	1
CSP	2		2	2	2	2	2
DCS	6		6	6	6	6	6
DMH	3		3	3	3	3	3
DOM	6		6	6	6	6	6
EME	1		1	1	1	1	1
ERM	5		5	5	5	5	5
EVE	2		2	2	2	2	2
FDE	4		4	4	4	4	4
FHS	22		22	22	22	22	22
FOR	4		4	4	4	4	4
FWS	16		16	16	16	16	16
GUI	4		4	4	4	4	4
HPM	1		1	1	1	1	1
HTH	12		12	12	12	12	12
HUT	1		1	1	1	1	1
JLS	1		1	1	1	1	1
JML	15		15	15	15	15	15
LEG	9		9	9	9	9	9
LIT	6		6	6	6	6	6
LOV	1		1	1	1	1	1
LOW	4		4	4	4	4	4
LVH	4		4	4	4	4	4

Location	L380	P52s	Keyboard	Dock	Monitor	Mouse	Travel Hub
MIL	6		6	6	6	6	6
MSE	3		3	3	3	3	3
MTE	9		9	9	9	9	9
MTV	1		1	1	1	1	1
NLE	4		4	4	4	4	4
PFH	8		8	8	8	8	8
PMK	1		1	1	1	1	1
PVH	4		4	4	4	4	4
RBM	1		1	1	1	1	1
RHL	4		4	4	4	4	4
RLC	4		4	4	4	4	4
RRD	2		2	2	2	2	2
RVH	1		1	1	1	1	1
SAN	4		4	4	4	4	4
SBH	7		7	7	7	7	7
SHM	12		12	12	12	12	12
SRM	1		1	1	1	1	1
Staff Training Center	17	9	26	26	26	26	26
SUG	2		2	2	2	2	2
SUL	1		1	1	1	1	1
SYC	2		2	2	2	2	2
TMS	1		1	1	1	1	1
TOL	5		5	5	5	5	5
SubTotal:	682	14	696	696	696	696	696
Spares:	14	1	14	14	14	14	14
Total:	696	15	710	710	710	710	710
	$ 592,296	$ 20,293	$ 12,574	$ 117,044	$ 110,938	$ 8,520	$ 47,570

$ 909,234

FY20 Teacher Device Deployment

School	L390 Device	Travel Hub
	$ 851	$ 67
ALG	1	1
ARC	56	56
BAL	44	44
BAM	80	80
BST	1	1
BUF	55	55
BWH	2	2
CAT	3	3
CCE	2	2
CED	1	1
CSP	1	1
CTY	2	2
DOM	44	44
EME	1	1
EVE	33	33
FDE	56	56
FHR	1	1
FOR	52	52
GPE	4	4
GUI	48	48
HAM	3	3
HRM	2	2
HRZ	1	1
HTH	1	1
HUT	1	1
JCH	1	1
JLS	1	1
JML	98	98
KWC	1	1
LEE	1	1
LEG	51	51
LIT	53	53
LOV	1	1
LOW	39	39
MSE	3	3
MTE	52	52
MTV	4	4
NLE	43	43
PFH	1	1
PMK	1	1
PNB	47	47

School	L390 Device	Travel Hub
PVH	2	2
RLC	50	50
RRD	44	44
RRH	1	1
RVH	1	1
SAN	35	35
SHM	2	2
SRM	2	2
STC	1	1
SUG	47	47
SUL	1	1
SYC	50	50
TMS	2	2
TOL	39	39
WAT	1	1
SubTotal:	1170	1170
Spares:	36	36
Total:	1206	1206

$ 1,026,306 $ 80,802 $ 1,107,108

FY20 Collaboration Monitor Deployment

Location	75" Interactive Panel	65" Interactive Panel	75" Non-Interactive Panel	86" Interactive Panel	55" Non-Interactive Panel	Mobile Mount	Tilt / Swivel Wall Mount	Chief Mount	15' Powerstrip	15' HDMI	15' USB	ScreenBeam 750	ScreenBeam 960	Install Services	Uninstall Services
	$2,203	$1,900	$1,093	$5,056	$460	$400	$120	$185	$17	$6	$3	$174	$261	$273	$273
Arcola ES	47		2	2	5	49	7		56	56	49	6	49	56	50
Belmont Station ES		42	3	2	7	44	10		54	54	44	6	44	56	55
Blue Ridge MS			61	2	11	2	72		74	74	2	72		0	0
Broad Run HS			83	2	8	3	90		93	93	2	91		92	94
Guilford ES	32		1	2	3	34	3		38	38	34	3	34	38	36
Loudoun Valley HS			65	2	6	2	71		73	73	2	71		73	75
Mercer MS			71	2	12	2	83		85	85	2	83		83	83
Newton Lee ES	44		1	2	4	46	5		51	51	46		46	56	51
Briar Woods HS			91	2	7	2	98		100	100	2	98		100	100
Creightons Corner ES	51		2	2	10	53	12		65	65	53	12	53	64	64
Dominion HS			84	2	2	2	86		88	88	2	88		83	83
Freedom HS			98	2	2	2	100		102	102	2	101		103	103
Heritage HS			87	2	1	2	88		90	90	2	88		91	91
Liberty ES	47		3	2	10	49	13		62	62	49	13	49	63	63
Loudoun County HS			74	2	1	3		74	77	77	2	75		77	75
Park View HS			74	2	4	2		83	80	80	2	79		80	81
Pinebrook ES	48		2	2	3	50	5		55	55	50	5	50	59	59
Potomac Falls HS			78	2	1	3	78		81	81	2	79		81	81
Rolling Ridge ES	37			2	1	39	1		40	40	39	1	39	40	38
Rosa Lee Carter ES	47		3	2	6	49	9		58	58	49	9	49	58	58
Steuart Weller ES	44		1	2	5	46	6		52	52	46	6	46	52	52
Stone Bridge HS			83	2	4	2	87		89	89	2	87		88	88
Stone Hill MS			71	2	4	2	75		77	77	2	75		77	77
Sugarland ES	36		3	2	3	38	6		44	44	38	6	38	44	39
SubTotal:	433	42	1041	48	120	526	1005	157	1684	1684	523	1154	497	1614	1596
Spares:	9	1	21	1	3	11	21	4	34	34	11	24	10	33	32
Total:	442	43	1062	49	123	537	1026	161	1718	1718	534	1178	507	1647	1628
	$973,775	$81,679	$1,160,320	$247,720	$56,580	$214,800	$123,377	$29,709	$29,086	$11,150	$1,570	$205,172	$132,454	$448,808	$443,630

$4,159,827

Loudoun County Public Schools
FY21 School Board Questions
January 30, 2020

Item Number	Board Member	Staff Assignment	Date of Request
171	**Corbo/Sheridan**	**Scheivert**	**1/27/20**

Please provide the refresh schedule for Steuart Weller. Did they receive their projection boards on the end of life schedule, or did they jump ahead of the scheduled plan for the school (Corbo)?   Provide the refresh schedule (Sheridan).

Steuart Weller was refreshed in the summer of 2019 in accordance with the published schedule on the following pages.

Synopsis:
The school division plans to refresh the classroom technology that includes projectors and interactive whiteboards throughout LCPS. The solution as proposed allows the school division to increase instructional engagement at all levels while implementing a sustainable financial and maintenance plan. The introduction of touch-enabled devices for teachers and students has initiated a change in the educational landscape. The shift allows teachers and student to leverage the mobility of the learning devices while still enabling connectivity to a large collaboration monitor that is necessary for whole group activities. At a 5-year cost of $9,584,100 this classroom technology refresh provides a dramatic cost savings over the previous model which would cost between $17,000,000 and $20,000,000.

Issue:
LCPS began utilizing "end of year" funding to purchase classroom technology including projectors and interactive whiteboards in 2007. Since this action took place prior to the creation of a formal technology department, systematic funding was not provisioned to account for the ongoing replacement of this classroom technology. In later years, funding was provided in an effort to maintain the classroom technology, but it is not adequate to sustain a replacement cycle.

The school division continues to modernize teacher, student, and classroom technology. The current classroom technology is now beyond the reasonable lifecycle and the costs to repair the devices outweigh the useful life. The issue is amplified by the need to utilize a series of adapters as we attempt to connect new computers to 12-year-old technology.

At this stage in the lifecycle of the devices, nearly 75% of the district's classroom display technology is considered obsolete and is no longer supported by the manufacturer. This means that the district cannot reliably obtain repair parts or peripherals, such as the touch pen, from the manufacturer, effectively making the device non-functional and increasing the instructional downtime staff and students endure when one of these outdated devices fail.

September 2017 to Present	
Incident Closed by Technology Assistants, Computer Technicians, and Audio-Visual Technicians	
30,641	8,031
Total Hardware Incident Resolved	Interactive White Incident Resolved

Incident Resolved
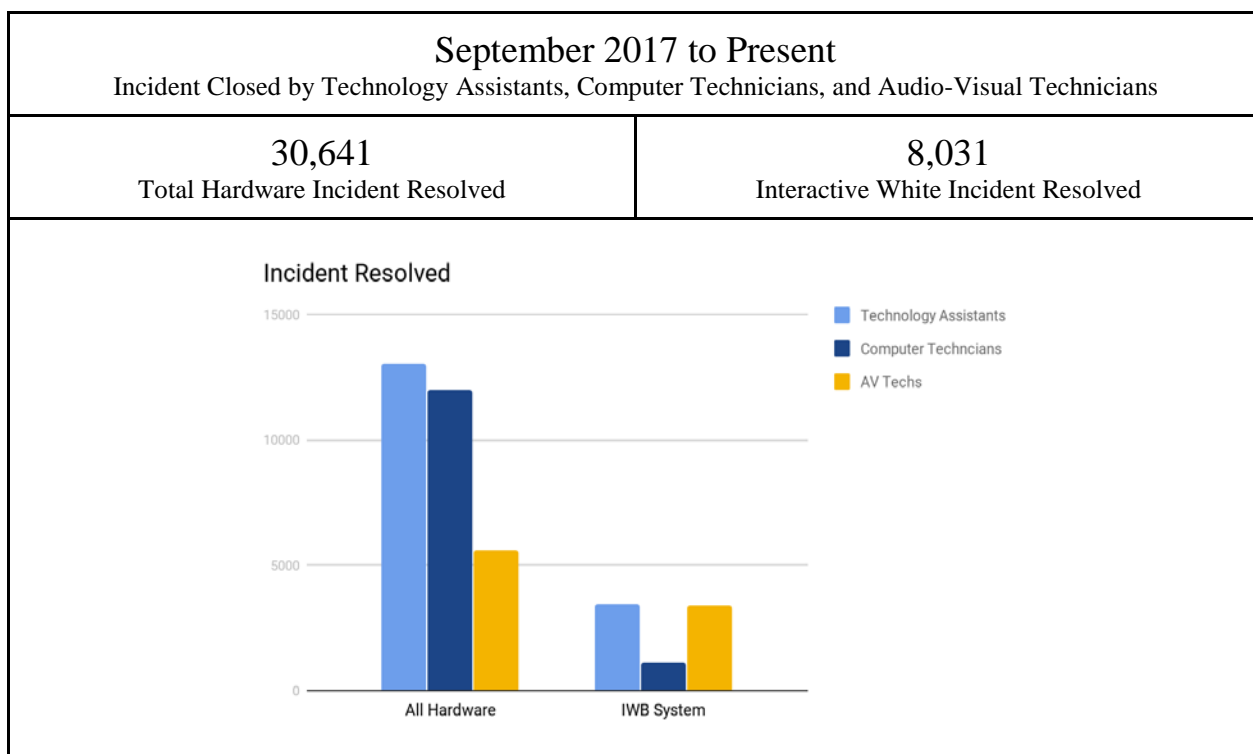
Proposed Solution:
Building on work conducted in 2016 by the Department of Instruction and the Department of Digital Innovation about the needs and capabilities necessary to deliver robust instruction, the Department of Digital Innovation has proposed a 5-year plan in which the district dedicates a small amount of annual funding to refresh classroom display devices and continually adapts the classroom technology configuration based on the best technology available which meets the financial and instructional needs of the division.

Neither solution will result in the loss of access to currently utilized interactive tools such as ActiveInspire or Flip Charts. Additionally, both solutions will still retain interactivity either directly through the classroom display or through newly deployed Lenovo touch screen teacher or student devices.

Elementary Solution
The proposed display solution for elementary schools has been specifically customized to meet the needs of our elementary staff and students. Interactivity has been provided to meet the instructional needs where multiple touch inputs and small group instruction is the norm. A mobile stand has been recommended so that the teacher can capitalize on the added flexibility and position the display to best suit the instructional needs of the current curriculum and support the small group instruction often provided in the elementary setting.

> **Elementary Specs ($2,350 per classroom)**
> 65" to 75" Interactive flat panel
> Mobile, height adjustable mount

Secondary Solution
The proposed secondary display solution has also been built with the unique needs of our secondary staff and students in mind. Secondary curriculum tends to not focus as much on small group instruction and display interactivity is often limited to a single user. A non-interactive display will provide the large group display capabilities and interactivity will be provided by the Lenovo, touch screen enabled, teacher and student devices. Wireless display capabilities will allow the teacher to move about the classroom while maintaining control and interactivity with the classroom display. A fixed wall mount solution is preferred as secondary classrooms tend to be limited on space where a mobile stand would be burdensome and inefficient for teachers to manage.

> **Secondary Specs ($1,950 per classroom)**
> 70" to 75" non-interactive flat panel
> Fixed wall mount
> Wireless presentation with interactivity @ device

The streamlined modern approach to classroom display will significantly reduce new construction costs and reduce classroom infrastructure complexity.

Each proposed solution ensures that staff and students retain current functionality and capitalizes on modern technology advancements to gain added flexibility, increasing the effectiveness of instruction provided by LCPS staff.

Proposed Technology and new Lifecycle
The expected useful life of flat panel displays is approximately 10 years versus the 5 years estimated for projection technology. While projectors can often provide a much larger display, the image does not always display colors correctly and is often "washed out" due to sunlight.

Interactive projection technology requires very precise installation steps to ensure the interactivity works correctly to start, and then the projector requires recalibration each time a device connects. Flat panel displays are easily mounted and does not require special setup or calibration. Flat panel displays can be quickly replaced due to the ease of installation and setup.

Proposed Replacement Schedule and Logistical Information

Beginning this year, work will begin to refresh the classroom technology. The services included in this proposal include the delivery, setup, configuration, and installation of each classroom display. This proposal does not include funding to remove existing IWB technologies and other infrastructure built into the classroom. The Department of Digital Innovation will collaborate with the Department of Support Services to coordinate the removal of IWB technologies and the associated facility repairs.

| | | | Total Number of Devices: | 4854 | | |

Note: Devices are refreshed based on age.

Summer 2019				Summer 2020			
Elementary		**Secondary**		**Elementary**		**Secondary**	
School	**Displays**	**School**	**Displays**	**School**	**Displays**	**School**	**Displays**
Arcola ES	44	Blue Ridge MS	71	Kenneth Culbert ES	51	Belmont Ridge MS	67
Belmont Station ES	49	Briar Woods HS	82	Legacy ES	53	Eagle Ridge MS	66
Creighton's Corner ES	50	Broad Run HS	79	Sycolin Creek ES	39	Farmwell Station MS	65
Guilford ES	33	Dominion HS	73			Harmony MS	66
Liberty ES	53	Freedom HS	93			Harper Park MS	64
Newton Lee ES	53	Heritage HS	89			J.L. Simpson MS	72
Pinebrook ES	53	Loudoun County HS	69			Riverbend MS	66
Rolling Ridge ES	37	Loudoun Valley HS	68			Seneca Ridge MS	72
Rosa Lee Carter ES	44	Mercer MS	73			Smarts Mill MS	64
Steuart Weller ES	52	Park View HS	78			Sterling MS	74
Sugarland ES	37	Potomac Falls HS	81				
SubTotal:	505	Stone Bridge HS	86	SubTotal:	143		
Per classroom cost:	$2,350	Stone Hill MS	66	Per classroom cost:	$2,350		
Total ES:	$1,186,750	Sub Total:	1008	Total ES:	$336,050	SubTotal:	676
		Per classroom cost:	$1,950			Per classroom cost:	$1,950
		Total Secondary:	$1,965,600			Total Secondary:	$1,318,200
		Total Year 1 Cost:	$3,152,350			Total Year 2 Cost:	$1,654,250

| Summer 2021 | | | | Summer 2022* | | | |
| Elementary | | Secondary | | Elementary | | Secondary | |
School	Displays	School	Displays	School	Displays	School	Displays
Buffalo Trail ES	52	Lunsford MS	93	Hutchison Farm ES	49	John Champe HS	113
Forest Grove ES	38	Tuscarora HS	97	Hillside ES	41		
Algonkian ES	37	Woodgrove HS	89	Horizion ES	44		
Ashburn ES	35			Leesburg ES	35		
Balls Bluff ES	36			Lincoln ES	10		
Banneker ES	12			Little River ES	46		
Catoctin ES	34			Lovettsville ES	34		
Cedar Lane ES	44			Lowes Island ES	38		
Cool Spring ES	39			Lucketts ES	14		
Countryside ES	43			Meadowland ES	28		
Dominion Trail ES	34			Mill Run ES	45		
Emerick ES	30			Mountain View ES	46		
Evergreen Mill ES	38			Potowmack ES	37		
Francis Hazel Reid ES	45	Sub Total:	279	Round Hill ES	38	SubTotal:	113
Hamilton ES	16	Per classroom cost:	$1,950	Sanders Corner ES	33	Per classroom cost:	$1,950
		Total Secondary:	$544,050	Seldens Landing ES	49	Total Secondary:	$220,350
				Sterling ES	32		
		Total Year 3 Cost:	$1,796,600	Sully ES	33	Total Year 4 Cost:	$1,884,150
				Tolbert ES	43		
				Waterford ES	13		
Subtotal:	533						
Per classroom cost:	$2,350						
Total ES:	$1,252,550			SubTotal:	708		
				Per classroom cost:	$2,350		
				Total ES:	$1,663,800		

Summer 2023			
Elementary		**Secondary**	
School	**Displays**	**School**	**Displays**
Frederick Douglass ES	51	Rock Ridge HS	106
Discovery ES	51	Trailside MS	80
Moorefield Station ES	51	Dominion HS	10
Madison's Trust ES	52	Riverside HS	97
Cardinal Ridge ES	51	Brambleton MS	86
Goshen Post ES	63	Academies of Loudoun	96
		Willard MS	95
Subtotal:	319	Subtotal:	570
Per classroom cost:	$2,350	Per classroom cost:	$1,950
Total ES:	$749,650	Total Secondary:	$1,111,500
		Total Year 5 Cost:	$1,861,150

Individual Learning Devices

School Board Work Session
April 10, 2018

Empowering all students to make meaningful contributions to the world
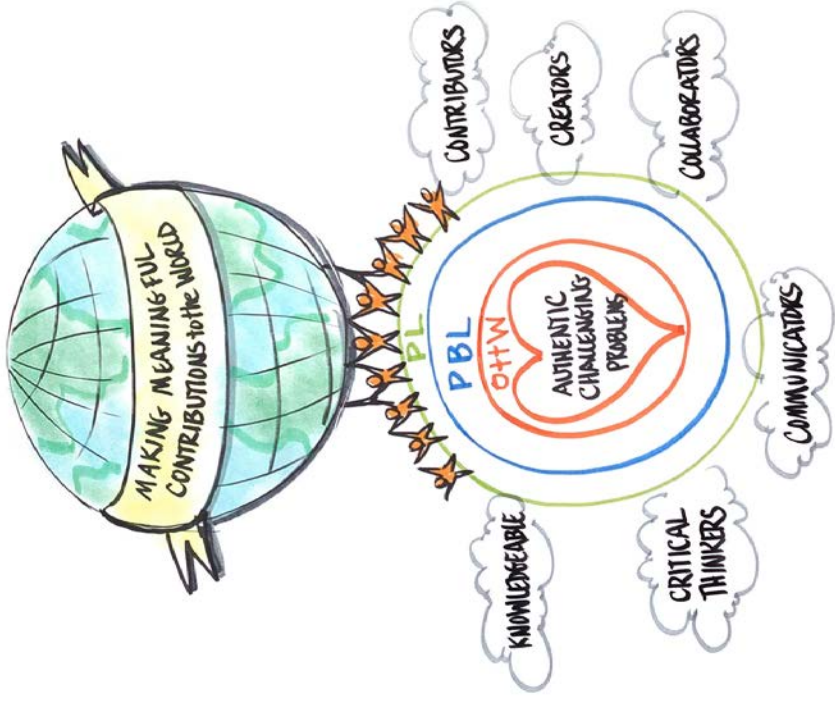
Where are we?

Project Based Learning

Personalized Learning

Textbooks and Digital Instructional Resources

3.6 Students per Device Allocation with School-based Augmentation

Bring Your Own Technology

Dynamic Learning Environment

Providing access to high quality instructional resources

Increasing student ownership of their learning

Improving the quality and amplifying the impact of students' work

Technology Enabled

Building Blocks for Deeper Learning
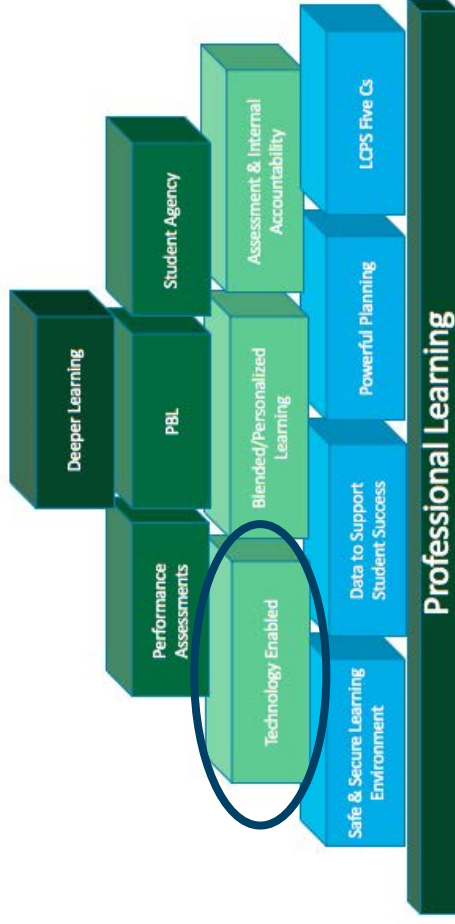
Module-Based Support for Teachers

All Teachers

Technology Enabled Instruction

School-Selected

PBL	Performance Assessment	Student Agency
Blended/ Personalized	Assessment and Internal Accountability	Safe and Secure Learning Environments
Data to Support Student Success	Powerful Planning	LCPS Five C's

The school-selected module will be chosen based on alignment with school's improvement plan

Technology Enabled Instruction

Educational Technology **Enables** and **Deepens** instruction and learning

Enabling Instruction and Learning		Deepening Instruction and Learning
Spring/Summer 2018 Getting Started ● Devices & tools ● Personal Productivity ● Classroom Management	**Fall 2018** Designing Effective Digital Learning Experiences	**Spring 2019** Increasing Authenticity and Agency through Technology

Digital Citizenship and Data Privacy

Program Overview

Goal

- To provide all students with contemporary digital tools that will allow them to maximize the learning environment.
- Provide every student in grades 3 through 12 with an individual learning device
- Kindergarten through 2nd grade maintain a 3 student to 1 computer ratio
- Speciality labs remain in secondary schools
- Provide every teacher with a laptop to facilitate teaching and learning

Maximizing the Learning Environment

Reliability of the device paramount and other digital tools must empower students and teachers

Contemporary tools must promote a flexible/mobile learning environment

Ensuring access for all students

Enable all students to be producers of digital content not just consumers

Individual Learning Device Timeline

April

- Petting Zoos held and feedback gathered regarding device selection
- Initiate procurement for teacher and student device for 23 schools

May

- Roll-out new laptops to teachers

June

- Remove all equipment set to be recycled as part of refresh

Individual Learning Device Timeline

SUMMER ACTIONS

July

- Initiate procurement student device for remaining 23 schools in wave 1
- Prep schools for new devices

August

- Hold Informational Meeting for parents
- Rollout device to students based on building needs

By the numbers*

Previous Student Computer Refresh Model

Cycle	5 years
Number of Devices	12,500
Student to Computer Ratio	3:1
Number of Schools	16
Annual Total Cost	$10,325,000

New Student Computer Refresh Model

Cycle	4 years
Number of Devices	22,000
Student to Computer Ratio	1:1 Grades 3-12 3:1 K-2
Number of Schools	23 (46 in the first year)
Annual Total Cost	$10,525,000

* Numbers are approximate cost models based on school enrollments.

Department of Digital Innovation

Teacher Devices

Lenovo Thinkpad L380

- 2-1 form factor
- 13.3" FHD Display
- Touchscreen w/ stylus
- i5 processor
- 8GB RAM
- 128GB SSD
- Up to 12 hours battery life
- ~3.5lbs

Misc

- USB C Dock vs. USB C Travel Hub
- Stays with the teacher from school to school until time for upgrade

Lenovo

Department of Digital Innovation

Student Devices

Lenovo 11e Yoga (Windows 10)

- 2-1 form factor
- 11.6" FHD Display
- Touchscreen
- Celeron
- 8GB RAM
- 128GB SSD
- Up to 10 hours battery life
- ~3.5lbs

Lenovo 300e Chromebook

- 2-1 form factor
- 11.6" HD Display
- Touchscreen w/ "pencil touch" (Gorilla Glass)
- MediaTek processor
- 4GB RAM
- 32GB eMMC
- Up to 10 hours battery life
- ~3.5lbs

Elements of Success

Refining School Board policy and administrative practices to support a digital learning environment

Creation of student led helpdesks at each school

Bootcamps for teachers and students which provide a foundation of responsible use of the laptop and it capacity

Continual communication with staff, parents, and students about the roll-out

Administrative Considerations

Transitioning from Acceptable Use to Responsible Use Policy

Creation of a Laptop Responsibility Form

- Addresses take home privileges, care of the devices, and consequences of intentional damage/loss

Establishing Norms for device use and content filtering

- Developing universal understanding when it is appropriate to restrict access and create a defined review process

Questions or Clarifications

Overview

The Individual Learning Devices computer refresh model will provide each student in grades 3 through 12 with a Chromebook for their use in school and at home.

In year one, we are accelerating the new refresh model by combining the FY18 and FY19 computer refresh funds. Forty-six schools will receive individual learning devices starting in the 2018-2019 school year. Twenty-two schools will receive individual learning devices the following year. The remaining schools will receive the devices the third year. The individual learning devices will then be replaced on a four-year replacement cycle. A secondary benefit to this replacement model is that nearly all devices division-wide will be refreshed a full year earlier than the previous refresh model.

Devices for Teachers

Approximately 3500 of LCPS instructional staff have been issued laptops to facilitate instructional and operational functions as computer refreshes have been implemented. By the end of May 2018, DDI will provide the remaining teachers with laptops to be used at home and work. No staff laptop will be collected over the summer. Teachers will have access to them to plan and participate in summer professional opportunities. The computing needs of other staff will be evaluated next school year.

Students in Kindergarten through Grade 2

As part of the refresh, elementary schools will receive approximately one device for every three students in kindergarten through grade 2. These devices will be for use at school, not at home. The devices will be grouped in classroom sets housed in specific classrooms. For example, a classroom set of 7 devices would be housed in a grade 1 classroom of 21 students. Classroom device compositions may vary based on feedback from principals and instructional staff.

Secondary School Specialty Labs

Specialty computer labs that operate at the secondary level and require specialized equipment to serve students in courses such as Career and Technology Education, digital graphic arts, and video production, will be maintained and included in the new refresh model.

General Use Computer Labs

Traditional computer labs intended for check-out use at the elementary and secondary levels will be repurposed. LCPS will consider creating digital production labs, engineering pods, tinker spaces, fabrication spaces, and other options.

How is it possible to make this shift?

To maintain a 3.6 students to 1 computer ratio, the school division needed to purchase roughly 7,000 student computers a year. A 3.6:1 ratio was not meeting the learning needs in our schools. For the past two years the division augmented the 3.6:1 ratio with the purchase of additional devices for programs like Loudoun Creates (2500) and Personalized Learning (3000) annually. This caused the number of devices procured to increase to 12,500 annually. Because of the model, LCPS had to spend money on other items like charging carts and other ancillary systems to house/charge the devices while not in use.

DDI went through a number of budget assessments to gain a full understanding of the true costs of our "old" refresh cycle. Based on the budget required to continue to support the "old" model, we had the opportunity to ask, "what if?" What if we thought every student needed to have access to robust digital learning tools? What if all students were able to create and communicate in digitally rich ways? This series of "what if?" scenarios led us to ask, "why not?"

Utilizing our current financial capacity as a base, we assessed the current device offerings and assessed the computing capacity that was required to meet our goal of providing all students with an individual learning device. This led to our decision to procure a less expensive model for daily use. In the previous model the base amount of a lab computer was $850 per student device, and in the new model the device price point does not to exceed $350 a device. That lower cost, along with the reduction of items like computer carts, allows us to adopt a new, cost neutral computer refresh model.

Device Selection

DDI assessed and selected a series of devices that had the capacity of meeting the needs of the students and staff in the school division. Over the past couple weeks, DDI held a series of informational meetings in schools in each planning zone. These meetings had the format of a visit to an educational Petting Zoo. The Petting Zoos included overviews of the device, benefits of the device, a demonstration, the opportunity to try out the devices, and a question/answer session. Additionally, DDI recently sent out survey to all staff for any final considerations.

Other Aspects of Refresh & Other Expenditures

Computer refreshes will still include providing schools with technology peripherals like docking stations and monitors where appropriate.

Since the new machines will be used as Loudoun Creates devices and personalized learning devices as those programs expand into new schools.

Schools will retain computers purchased with PTA funds, PTO funds, and school-level funds, as well as Loudoun Creates iPads, for the length of their life cycle as determined by the Department of Digital Innovation.

Personal Learning Device Refresh Schedule

Summer of 2018	
School Name	**Old Model Summer**
Academies of Loudoun	New
Aldie ES	2019
Algonkian ES	2020
Ashburn ES	2020
Banneker ES	2018
Belmont Ridge MS	2018
Broad Run HS	2018
Blue Ridge MS	2018
Catoctin ES	2018
Creighton's Corner ES	2019
Cedar Lane ES	2019
Countryside ES	2018
Discovery ES	2019
Dominion HS	2019
Emerick ES	2019
Frances Hazel Reid ES	2018
Goshen Post ES	New
Hamilton ES	2018
Hillside ES	2018
Harper Park MS	2019
Harmony MS	2022
John Champe HS	2022
J. Lupton Simpson MS	2018
Loudoun County HS	2018
Leesburg ES	2019
Lincoln ES	2018
Lovettsville ES	2018
Lucketts ES	2019
Loudoun Valley HS	2018
Meadowland ES	2018
Mercer MS	2019
Mountain View ES	2018
River Bend MS	2021
Rock Ridge HS	2020
Stone Bridge HS	2019
Smart's Mill MS	2019
Seneca Ridge MS	2020
Sterling ES	2019
Sterling MS	2018
Steuart W. Weller ES	2019
Sully ES	2018
Tuscarora HS	2020
Trailside MS	2020
Waterford ES	2020
Woodgrove HS	2021
Willard IS	New

Total Schools Refreshed   46

Summer of 2019	
School Name	**Old Model Summer**
Belmont Station ES	2020
Briar Woods HS	2020
Cardinal Ridge ES	2020
Cool Spring ES	2020
Eagle Ridge MS	2021
Farmwell Station MS	2021
Horizon ES	2020
Heritage HS	2022
Hutchison Farm ES	2020
Independence HS	New
Kenneth W. Culbert ES	2021
Liberty ES	2020
Freedom HS	2021
Mill Run ES	2021
Moorefield Station ES	2019
Potomac Falls HS	2020
Potowmack ES	2020
Park View HS	2022
Round Hill ES	2019
Riverside HS	2021
Seldens Landing ES	2021
Stone Hill MS	2022
ES-31	New

Total Schools Refreshed   23

Summer of 2020	
School Name	**Old Model Summer**
Arcola ES	2022
Ball's Bluff ES	2021
Brambleton MS	2021
Buffalo Trail ES	2021
Dominion Trail ES	2022
Douglass	2022
Evergreen Mill ES	2022
Frederick Douglass ES	2022
Forest Grove ES	2021
Guilford ES	2022
J. Michael Lunsford MS	2022
Legacy ES	2021
Lightridge HS	New
Little River ES	2021
Lowes Island ES	2022
Madison's Trust ES	2022
Newton-Lee ES	2021
Pinebrook ES	2021
Rosa Lee Carter ES	2022
Rolling Ridge ES	2022
Sanders Corner ES	2021
Sugarland ES	2022
Sycolin Creek ES	2022
John W. Tolbert Jr. ES	2021

Total Schools Refreshed   24

Schools Per Year	
2018	46
2019	23
2020	24
Total	**93**

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Item Number	Board Member	Staff Assignment	Date of Request
172	Corbo	Scheivert	1/27/20

Provide the pilot program conducted including the timeline and feedback for the removal of the dedicated AV, with the "obsolete" promethium and Lenovo?

This question was previously answered as part of budget question 92 on January 24, 2020.

Here is that response:

In following Deming's process of Plan Do Study Act, DDI initiated a series of mini pilots that culminated in two large scale pilots.   The mini pilots were designed to evaluate technologies in isolation and grew in scale and complexity.   Pilots occurred at Dominion High School, Broad Run High School, Mercer Middle School, and Guilford Elementary School.   Along with the school-based pilots there was continuous testing at the Staff Training Center. The two pilots that occurred at scale occurred at Loudoun Valley High School and Belmont Station Elementary School.

Item Number	Board Member	Staff Assignment	Date of Request
173	Corbo	Scheivert	1/27/20

Provide the pilot program conducted in the secondary schools with the non-interactive projection boards.

Research on the evaluation of the school division's readiness to provide every student with a learning device and providing every teacher with a laptop can be found on the Research Department's web page in the 2013-2014 section: https://www.lcps.org/page/1997.

When implementing the classroom display refresh, DDI followed Deming Cycle of Plan-Do-Study-Act. DDI initiated a series of mini pilots that culminated in two large scale pilots.   The mini pilots were designed to evaluate technologies in isolation and grew in scale and complexity.   Pilots occurred at Dominion High School, Broad Run High School, Mercer Middle School, and Guilford Elementary School.   Along with the school-based pilots there was continuous testing at the Staff Training Center. The two pilots that occurred at scale occurred at Loudoun Valley High School and Belmont Station Elementary School.   Since the pilots were part of the implementation process no formal report was developed.   Each mini pilot informed the next iteration.

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Item Number	Board Member	Staff Assignment	Date of Request
174	**Corbo**	**Scheivert**	**1/27/20**

Provide the pilot program conducted in schools with the wireless connections and the non-interactive boards.

In January of 2017, the Department of Technology Services (DTS-currently the Department of Digital Innovation), the Department of Instruction (DOI), and Support Services convened to discuss feedback provided during the Interactive Technologies Focus group meeting and if any other developments occurred since the last meeting. The focus group provided a comprehensive perspective of the current uses of the Promethean boards both interactively and projection only, potential technology uses, and effect on student learning. There was also a poll conducted with other school divisions that resulted in a variety of options that were consistent with our reviewing and vetting process.

DTS, DOI, and Support Services discussed the utility of interactive white boards (IWB) segmented by grade level, the impact of additional devices through personalized learning, Loudoun creates, and the 3.6:1 student to computer ratio. Also discussed, how could be leveraged and integrated in the classroom to support learning while balancing the cost considerations. The committee made the following recommendation.

Initiative	Elementary	Middle	High
Projector Refresh or replacement	Interactive projector and whiteboard	Interactive projector and whiteboard	Interactive projector and whiteboard
New Schools	More study required for elementary usage	Standard projector, whiteboard, additional Mobile devices	Standard projector, whiteboard, additional Mobile devices

The specification for new schools was modified in 2016 to include Interactive Projectors by EPSON for all new construction. There was no budget consideration given to replace the obsolete boards.

Building on work conducted in 2016, the Department of Instruction and the Department of Digital innovation designed a new platform that provided interactivity at all levels and increased the collaboration capabilities of the once static displays. DOI and DDI believe the new interactive capabilities necessary to deliver robust instruction. In 2019, the Department of Digital Innovation began a 5-year plan to refresh classroom display devices which meets the instructional and financial needs of the division.

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Item Number	Board Member	Staff Assignment	Date of Request
175	Corbo	Scheivert	1/28/20

Please explain the 3.6 to 1 model share.

In accordance with this model, the division provided 1 computer for every 3.6 students enrolled at a school.

176	Reaser	Scheivert	1/28/20

If we were to consider Promethean boards or (other technology equipment) for High School math – Can we get an idea of how many would be needed and what that cost would be so we can have a conversation about that possibility?

The Department of Digital Innovation and the Department of Instruction will collaborate to assess the needs of the secondary mathematic teachers. Including $700,000 in the FY21 proposed budget would provide funding that would assist with this effort. Staff would update the School Board before plans are finalized.

177	Barts	Scheivert	1/28/20

Is it possible to have two separate classroom technology plans at the secondary level?

Yes, as explained in question 176, including $700,000 in the FY21 proposed budget would assist in this effort.

178	Beatty	Scheivert	1/28/20

Could you explain the Enterprise Support Specialist and the Analytics Specialist and how those staffing standards came about?

DDI explored using industry best practices from APQC, Robert Half, and Gartner as some examples, to determine the appropriate staffing levels for each role based on systems and population supported. The recommended ratio was 1:10,000 which did not account for size of application or role of FTE. Additionally, if LCPS adopted those ratios we would be asking for seven additional FTEs versus the two we requested.

Enterprise Support & Analytics provides implementation, training, support, and enhancements to division-wide solutions that are used by students, parents, and staff.

Item Number	Board Member	Staff Assignment	Date of Request

178 (continued)

Most staffing standard formulas are student-based. This would exclude the other large groups such as parents and staff.

Enterprise Support and Analytics team has 5 Enterprise Support Specialists (ESS) and 4 Analytics Specialist (AS) currently. This staff of 9 has very different skill sets and responsibilities and should not be comingled.   The roles of each are described below.

There are 4 Analytics Specialists in DDI. Each Specialist has subject matter responsibility and state reporting responsibility for specific areas. The growth in student enrollment has led to additional students, staff, programs to track, and more opportunities to ensure that our enterprise wide student data is kept clean.   In addition to growth in enrollment, the scope of data that is stored in the SIS continues to grow each month as our stakeholders request fields and automation of existing paper processes, and additional growth in data collections from the VDOE that are fulfilled by DDI on behalf of other LCPS departments.   Lastly, the number of system integrations served by this office has grown exponentially during the past 3 years alone moving from 5 applications to more than 50 currently.

There are 5 Enterprise Support Specialists in DDI. The results of the annual survey indicate a strong need from schools to provide onsite support, and to model the approach used by other departments who use Instructional Facilitators for ongoing, embedded, professional development. This position supports staff, parents, and students with a number of applications including parent/student portals, Phoenix, Blackboard suite, Qlik, Permission Click, Schoology, and custom web solutions such as summer school registration and Academies applications.   As roles have changed for both the IFT and the Digital Experience Specialist, gaps in support exist that need to be filled by this position. The need for ongoing professional development and a highly responsive support model is essential.

179	**Corbo**	**Scheivert**	**1/28/20**

Are you able to provide what equipment will be placed in which schools and what years (future year-by-year planning)?   Please provide the DDI plan that was provided to the board last year?

This information has been included as a response to question 170.   Please refer to the attachments following question 170.

Item Number	Board Member	Staff Assignment	Date of Request
180	Barts	Scheivert	1/28/20

Where did the 95% number for Parent View come from?   Would like to see the data that goes into that statistic.

ParentVUE Statistics

Number of students with at least 1 activated parent	81,073
Total number of students	84,615
Percent of students with at least 1 activated PVUE account (81,073/84,615)	95.81%

Item Number	Board Member	Staff Assignment	Date of Request
181	Reaser	Ziegler	1/28/20

How are the mentors mentioned in the presentation selected?

Teachers who wish to serve as mentors apply to the building principal.   In collaboration with the lead mentor, the principal selects teachers to serve as mentor teachers. Once selected, mentor teachers attend training provided by the Mentoring and Coaching Office within HRTD.   The principal and lead mentor work to pair mentors and new teachers based on teaching assignments and building needs.   The mentor provides ongoing support, advice, and inculturation throughout the new teacher's first year in a relationship outside the evaluation process.

Item Number	Board Member	Staff Assignment	Date of Request
182	Beatty	Ziegler	1/28/20

Explain the difference in the budget expenditures on page 147 of HRTD of almost $1,000,000, but the budget presentation stated the change is only $0.2 million.

The changes that were captured in the budget presentation result from the addition of a new position and increases to operations and maintenance. The additional changes on page 147 of the budget book are changes in personnel costs. A key driver in the HRTD personnel costs relates to mentor stipends that were previously partially grant funded and were included in the Non-Departmental budget.

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Item Number	Board Member	Staff Assignment	Date of Request
183	Morse	Willoughby	1/28/20

Provide the impact on the proposed budget of capping pay raises at 5% and capped at 6% (two estimates).   These percentages should include all compensation increases including scale adjustments, step increases, 1% market adjustment, and classification reviews.

The FY21 proposed budget includes several initiatives related to salaries.   Two of these initiatives have been identified that would be impacted by the cap: the Pay and Classification Review initiative and the teacher salary scale restructuring.

Projecting the impact of pay raises proposed during the Pay and Classification Review presents several issues:

- The proposed FY21 budget designates $1.7M to fund the next cycle of the Pay and Classification review. The review will occur in the fall of 2020, and the requested projection would be based on incomplete data and may fall outside of an acceptable margin of error.
- The goal of the Pay and Classification process is to base LCPS salaries on current market conditions. Capping raises before the completion of the review may result in salaries that remain below the market after adjustment.

Capping teacher pay increases by 5% would result in a savings of $33.1m and capping at 6% would result in a savings of $26.7m. Implementing a 5% or 6% cap would not allow LCPS to meet all of the desired outcomes in the approved Competitive Salaries Strategic Action. Enacting either of these salary scales results in a scale that:

- loses ground in market competitiveness for the Bachelor's Median and Master's Median metric;
- includes no adjustment for step 30;
- has inconsistent steps;
- and specifically for the scale capping pay increases to 5%, includes a minimum pay increase of only 0.2%.

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Item Number	Board Member	Staff Assignment	Date of Request
184	Serotkin	Ellis	1/28/20

Please provide school MAP data for the three schools in the immersion program for the past five years (follow up to question 121).

We have MAP data for all three Computer Science Immersion schools for 2018-19 only, which was the first year we implemented MAP for all elementary and middle schools.

The table below provides Fall to Spring student growth data for Reading and Math for the CS schools.

FYI: The division averages for the elementary schools were 51.03 for Math and 51.68 for Reading.

Question: What is the conditional growth across the schools?				
Source: Fall to Spring 2018-2019 Conditional Growth Percentile				
	Discipline ▾ Mathematics Average of Fall To Spring Conditional Growth Percentile	Count of StudentID	Reading Average of Fall To Spring Conditional Growth	Count of StudentID
Student Group ▾				
Meadowland ES	39.15	267	46.88	266
Moorefield Station ES	48.72	649	49.34	649
Round Hill ES	67.93	338	60.85	335
Grand Total	51.93	1254	51.90	1250