

## Outline of yearly learning and teaching implementations – Updated November 2017

The following outline focuses on the technology needed to support teaching and learning in a mobile, Wi-Fi enabled environment. However, the overall budget considers a wide range of business operation needs including those of data security and retention, legal requirements placed upon public agencies and RSD departmental needs – finance, purchasing, human resources, payroll, maintenance, transportation, nutrition, etc.

Year	Goals/Tasks	Updates November 2017	Priorities	Support
<b>Overall 2016-2022</b>	<ul style="list-style-type: none"> <li>• Increase access of device per students                             <ul style="list-style-type: none"> <li>○ 3:1 in K-1 with tablets</li> <li>○ 2:1 in grades 2-5 with laptops</li> <li>○ 1:1 in middle school with laptops</li> <li>○ 1:1 in high school with laptops and take-home</li> </ul> </li> <li>• Modernize classroom display technologies and ‘untether’ the teacher</li> </ul>	<ul style="list-style-type: none"> <li>• Piloting tablets at Meadow Crest, evaluating convertible Chromebooks at K-1</li> </ul>	Creating inclusive, equitable instructional models	Flexible, responsive support as needed; organizational sponsorship and robust systems
<b>2016-2017</b>	<ul style="list-style-type: none"> <li>• Continue to increase number of devices for student use across the district</li> <li>• Add approximately 2,700 computers for student use across the district (elementary, middle, and high school)</li> <li>• Modernize devices/computers                             <ul style="list-style-type: none"> <li>○ 1,250 student computers</li> <li>○ 1,100 staff computers</li> <li>○ 200 administrator laptops</li> </ul> </li> <li>• Modernize one-third of classroom display technologies</li> <li>• Modernize all network switches</li> <li>• Modernize copiers</li> <li>• Modernize telephones</li> <li>• Vera Rison Middle Schools – outfit with technology</li> <li>• Increase storage capacity for new security camera system</li> <li>• Plan network redundancy across district</li> <li>• Develop a new instructional/technology support model for our schools to be implemented in 2017-2018</li> <li>• Review and evaluate 2016-17 plan</li> <li>• Implementation; revise 2017-18 plans</li> </ul>	<ul style="list-style-type: none"> <li>• 2936 Chromebooks added</li> <li>• 472 student computers modernized; remainder part of 1:1</li> <li>• 1175 staff computers HP x360</li> <li>• 200 administrator HP x360</li> <li>• Classroom display delayed until 2017-18 due to construction costs</li> <li>• Switches delayed to 2017-18 due to e-Rate funding delay</li> <li>• 68 copiers placed in schools/ departments</li> <li>• Telephone process started in 2016, placement in 2017-18</li> <li>• Risdon MS outfitted with technology (over 500 computers)</li> <li>• Camera project on hold until switches replaced</li> <li>• Planning started, will continue in 2017-18</li> <li>• One FTE position created; new support model implemented</li> <li>• Review is ongoing</li> <li>• Revisions 2017-18 as appropriate</li> </ul> <p>Additional work:</p> <ul style="list-style-type: none"> <li>• Implemented new Help Desk software (Vizor) and process</li> <li>• Google G-Suite for all students</li> <li>• Single sign-on portal; simplified log-in process</li> <li>• New intranet – RSDNet developed with a phased roll-out</li> </ul>	<p>Focus on increasing <b>readiness</b></p> <p>Expand use of tools (Office 365, Canvas, programs)</p>	<p>Learning: Increase understanding and implementation of instructional model DLCs and TISs to support technically and instructionally, CFs and IFs to support with content and instruction</p> <p>Technical: Provide additional staff to support school technology</p>

Year	Goals/Tasks	Updates November 2017	Priorities	Support
2017-2018	<ul style="list-style-type: none"> <li>• Continue to increase number of devices for student use across the district               <ul style="list-style-type: none"> <li>○ Pilot 1:1 model in <i>one middle school and one high school</i> through with purchase of 2,200 computers</li> <li>○ Move laptops in 1:1 school to other buildings</li> <li>○ Modernize/refresh 3000 lab computers</li> </ul> </li> <li>• Modernize second one-third of classroom display technologies</li> <li>• Plan and begin implementation of increase in wireless/Wi-Fi capability</li> <li>• New Sartori Elementary School – outfit with technology</li> <li>• Implement appropriate network redundancy phase across district</li> <li>• Implement instructional/technology support model for all schools. Test advanced model in two 1:1 schools</li> <li>• Review and evaluate 2017-18 plan</li> <li>• Implementation; revise 2018-19 plans</li> </ul>	<ul style="list-style-type: none"> <li>• Dimmitt MS implements 1:1</li> <li>• High school delayed until 2018-19 (Renton HS)</li> <li>• DMS laptops being moved and used as spares</li> <li>• Lab modernization on hold as 1:1 program leading to new analysis</li> <li>• Modernize LHS CTE lab – 180 computers</li> <li>• First one-third of classroom displays will be done in 2017-18</li> <li>• Increase Wi-Fi capacity with new Access Points (APs) starting at 1:1 school; Modernize switches in schools with eRate funds; Pull higher capacity fiber between data closets</li> <li>• Sartori planning under way; summer 2018 implementation</li> <li>• Network redundancy planning</li> <li>• Evaluate instructional support at DMS</li> </ul> <p>Added:</p> <ul style="list-style-type: none"> <li>• Telephone deployment</li> <li>• Nutrition Services – modernize 37 computers</li> <li>• Sprint 1Million Project – providing WiFi hot spots to high poverty HS students</li> <li>• Tally HS community service project to refurbish and distribute old laptops</li> <li>• Complete roll-out RSDNet</li> </ul>	<p>Focus on increasing <b>differentiation</b></p> <p>Expand use of tools (Office 365, Canvas, more programs)</p>	<p>Learning: Increase understanding/implementation of instructional model, DLCs and TISs to support technically and instructionally, CFs and IFs to support with content and instruction</p> <p>Technical: Provide additional staff (part-time?) in 1:1 schools; Increase operations staff</p>
2018-2019	<ul style="list-style-type: none"> <li>• Continue to increase number of devices for student use across the district               <ul style="list-style-type: none"> <li>○ 1:1 in all middle schools with purchase of about 2,300 computers</li> <li>○ Pilot 1:1 model with take-home computers at one high school (1,400 computers; second high school at 1:1)</li> <li>○ Modernize/refresh 275 lab computers</li> <li>○ Move laptops from 1:1 to elementary schools</li> </ul> </li> <li>• Modernize last one-third of classroom display technologies</li> <li>• Finish implementation of increased wireless/Wi-Fi capability</li> <li>• Implement appropriate network redundancy phase across district</li> <li>• Update and revise instructional/ technology support model for all</li> <li>• Review and evaluate 2018-19</li> <li>• Implementation; revise 2019-20 plans</li> </ul>	<ul style="list-style-type: none"> <li>• 1:1 at three middle schools requires 2726 Chromebooks</li> <li>• Renton HS 1:1 will use reallocated 13" Chromebooks from middle schools and RHS</li> <li>• Redo analysis of number of labs needed in secondary schools due to 1:1 implementation</li> <li>• Modernize second third of classrooms with new display technologies</li> <li>• Increase WiFi capability in 2019 1:1 schools</li> </ul>	<p>Focus on increasing <b>differentiation</b> and <b>personalization</b></p>	<p>Learning: Intentional support of student-centered classrooms</p> <p>Technical: Provide additional staff (part-time?) in 1:1 schools; Increase operations staff</p>

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2019-2020	<ul style="list-style-type: none"> <li>• Continue to increase number of devices for student use across the district               <ul style="list-style-type: none"> <li>○ 1:1 in remaining high school (1400 computers)</li> <li>○ Move laptops in 1:1 school to other elementary schools to reach our ratio goals (3:1 in K-1 with tablets; 2:1 in grades 2-5 with laptops)</li> <li>○ Modernize/refresh 55 lab computers</li> </ul> </li> <li>• Implement appropriate network redundancy phase across district</li> <li>• Continue instructional/technology support model for all schools</li> <li>• Review and evaluate 2019-20 implementation; revise 2020-21 plans</li> </ul>	<ul style="list-style-type: none"> <li>• 1:1 at remaining three high schools – includes Tally HS (3000 computers)</li> <li>• Increase Wi-Fi capacity with new Access Points (APs) at any school not completed in 2018-2019;</li> <li>• Finish classroom display project</li> </ul>	Focus on increasing <b>personalization</b>	
2020-2021	<ul style="list-style-type: none"> <li>• Annual modernization of computers               <ul style="list-style-type: none"> <li>○ 4,000 that are in fifth year of service</li> <li>○ 160 lab computers</li> </ul> </li> <li>• Implement appropriate network redundancy phase across district</li> <li>• Continue instructional/technology support model for all schools</li> <li>• Review and evaluate 2020-21 implementation; revise 2021-22 plans</li> </ul>	<ul style="list-style-type: none"> <li>• About 2900 Chromebooks will be in year four – modernization may be necessary for the 2021-22 school year</li> <li>• Transition to 1:1 will eliminate most labs except some CTE</li> </ul>		
2021-2022	<ul style="list-style-type: none"> <li>• Annual modernization of computers</li> <li>• Implement appropriate network redundancy phase across district</li> <li>• Expand WiFi and bandwidth as needed</li> <li>• Review and evaluate 2021-22 implementation; revise 2022-2023 plans</li> </ul>			