

# Tukwila School District Technology Plan 2020-2024

Tukwila School District Mission is to create a learning community that supports and empowers students, staff, and families to reach their greatest potential.

Quality Criteria	2020-2021	2021-2022	2022-2023	2023-2024
<p><b>Certificated Staff Technology Use</b></p>	<ul style="list-style-type: none"> <li>• Transition from the presentation all in one computers to laptops grades 9-12.</li> <li>• Monitor and maintain existing enhance audio systems and document cameras K-12.</li> <li>• Certificated staff will continue to use enhanced audio systems, display devices and document cameras as part of their instructional practice when not in distance learning mode.</li> <li>• Staff will engage students in a remote learning environment and provide quality instruction using the tools provided to them by the school district.</li> <li>• Upgrade LAN/WAN Upgrades &amp; Server Modernization as necessary across the school district so that teachers have the best conductivity possible for instruction and other duties.</li> <li>• Evaluate the newer models of document cameras and prepare to purchase as needed.</li> </ul>	<ul style="list-style-type: none"> <li>• Transition from the presentation all in one computers to laptops grades 6-8.</li> <li>• Evaluate current presentation projectors in all schools with new flat panel or new SMART Boards.</li> <li>• Investigate new laptop models that are available for all certificated staff members.</li> <li>• Monitor and maintain existing enhance audio systems and document cameras K-12.</li> <li>• Certificated staff will continue to use enhanced audio systems, display devices and document cameras as part of their instructional practice.</li> <li>• Upgrade LAN/WAN Upgrades &amp; Server Modernization as necessary across the school district so that teachers have the best conductivity possible for instruction and other duties.</li> </ul>	<ul style="list-style-type: none"> <li>• Transition from the presentation all in one computers to laptops grades PreK-5.</li> <li>• Monitor and maintain existing enhance audio systems and document cameras K-12.</li> <li>• Certificated staff will continue to use enhanced audio systems, display devices and document cameras as part of their instructional practice.</li> <li>• Upgrade LAN/WAN Upgrades &amp; Server Modernization as necessary across the school district so that teachers have the best conductivity possible for instruction and other duties.</li> <li>• Share with all staff members how they can assist with the passing of a new Technology Levy.</li> </ul>	<ul style="list-style-type: none"> <li>• Monitor and maintain existing enhance audio systems and document cameras K-12.</li> <li>• Certificated staff will continue to use enhanced audio systems, display devices and document cameras as part of their instructional practice.</li> <li>• Upgrade LAN/WAN Upgrades &amp; Server Modernization as necessary across the school district so that teachers have the best conductivity possible for instruction and other duties.</li> </ul>

		<ul style="list-style-type: none"> <li>• Purchase additional document cameras based on identified need.</li> </ul>		
<b>Classified Staff Technology Use</b>	<ul style="list-style-type: none"> <li>• New Para-educator to the district will receive a new reconditioned laptop.</li> <li>• Staff will engage students in a remote learning environment and provide quality instruction using the tools provided to them by the school district.</li> </ul>	<ul style="list-style-type: none"> <li>• New Para-educator to the district will receive a new reconditioned laptop.</li> </ul>	<ul style="list-style-type: none"> <li>• New Para-educator to the district will receive a new reconditioned laptop.</li> <li>• Evaluate whether or not the current technology used by the classified staff is meeting their needs.</li> <li>• Share with all staff members how they can assist with the passing of a new Technology Levy.</li> </ul>	<ul style="list-style-type: none"> <li>• New Para-educator to the district will receive a new reconditioned laptop.</li> <li>• Based on the evaluation the previous year, determine if new technology needs to be purchased for classified staff.</li> </ul>
<b>Student Technology Use K-5</b>	<ul style="list-style-type: none"> <li>• The Tukwila School District will continue to provide internet services and Chromebooks to students at no cost during the distance learning model.</li> <li>• Monitor the inventory of Chromebooks and Hot Spots so that the student demand for these devices can be met in a Hybrid Teaching Model.</li> <li>• Students will become more proficient with distance learning as teachers continue to teach in this model.</li> <li>• The Technology Advisory Committee will meet virtually throughout the school year to</li> </ul>	<ul style="list-style-type: none"> <li>• The Technology Advisory Committee will continue to meet throughout the school year to plan for the implementation of the K-5 Technology Standards, evaluation of hardware and software and discuss technology functionality district-wide.</li> <li>• Determine what student devices will be purchased for students in Kindergarten.</li> <li>• Students access to on-line tools and resources in the areas of ELA, Math, Science, Social Studies, and Technology will</li> </ul>	<ul style="list-style-type: none"> <li>• The Technology Advisory Committee will continue to meet throughout the school year to plan for the implementation of the K-5 Technology Standards, evaluation of hardware and software and discuss technology functionality district-wide.</li> <li>• Purchase new student devices for the students in grades K.</li> <li>• Students access to on-line tools and resources in the areas of ELA, Math, Science, Social Studies, and Technology will</li> </ul>	<ul style="list-style-type: none"> <li>• The Technology Advisory Committee will continue to meet throughout the school year to plan for the implementation of the K-5 Technology Standards, evaluation of hardware and software and discuss technology functionality district-wide.</li> <li>• Students access to on-line tools and resources in the areas of ELA, Math, Science, Social Studies, and Technology will continually be evaluated through a race and equity lens.</li> <li>• Students will use existing technology devices to access</li> </ul>

	<p>plan for the implementation of the K-5 Technology Standards, evaluation of hardware and software and discuss technology functionality district-wide.</p> <ul style="list-style-type: none"> <li>• Students access to on-line tools and resources in the areas of ELA, Math, Science, Social Studies, and Technology will continually be evaluated through a race and equity lens.</li> <li>• Students will use existing technology devices that have been provided by the school district to access personalized learning and blended learning opportunities as provided by Tukwila School District staff members while in the distance learning model.</li> <li>• Staff will evaluate how the current student internet safety program aligns with the new Education Technology Standards and distance learning strategies.</li> <li>• Build a system in Hapara Analytics that accurately accounts for students in grades K-5 participation in remote online learning.</li> <li>• Evaluate the all in one computers that are located in each elementary library in the</li> </ul>	<p>continually be evaluated through a race and equity lens.</p> <ul style="list-style-type: none"> <li>• Students will use existing technology devices to access personalized learning and blended learning opportunities as provided by Tukwila School District staff members.</li> <li>• Revise the student internet safety program based on the alignment suggestions that were made the previous year.</li> <li>• If we are still in a distance learning model, older Chromebooks will have to be evaluated for their effectiveness in this learning model.</li> <li>• Replace all in one computers located in the elementary libraries that are determined to be ineffective as meeting the demand placed on them.</li> </ul>	<p>continually be evaluated through a race and equity lens.</p> <ul style="list-style-type: none"> <li>• Students will use existing technology devices to access personalized learning and blended learning opportunities as provided by Tukwila School District staff members.</li> <li>• Offer a revised student internet safety program that is aligned with the new Educational Technology Standards.</li> </ul>	<p>personalized learning and blended learning opportunities as provided by Tukwila School District staff members.</p> <ul style="list-style-type: none"> <li>• Determine if the new student internet safety program is aligned with the new Educational Technology Standards and determine if it is meeting the current needs of the school district.</li> </ul>
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	<p>district and determine if they need to be replaced.</p> <ul style="list-style-type: none"> <li>• Hire a Special Education staff member to serve the technology needs of the special education students in grades K-5.</li> </ul>			
<p><b>Student Technology Use 6-12</b></p>	<ul style="list-style-type: none"> <li>• The Technology Advisory Committee will continue to meet throughout the school year to plan for the implementation of the 6-12 Technology Standards, evaluation of hardware and software and discuss Technology functionality district-wide.</li> <li>• Continue to support the middle school video labs and increase their use across the school day.</li> <li>• Add a video production lab to the high school and develop a CTE framework for the class.</li> <li>• Purchase new student devices for the students in grades 9-12.</li> <li>• Determine what student devices will be purchased for students in grades 5-8.</li> <li>• Students access to on-line tools and resources in the area of ELA, Math, Science, Social Studies, and Technology will continually be evaluated through a race and equity lens.</li> </ul>	<ul style="list-style-type: none"> <li>• The Technology Advisory Committee will continue to meet throughout the school year to plan for the implementation of the 6-12 Technology Standards, evaluation of hardware and software and discuss Technology functionality district-wide.</li> <li>• Purchase new student devices for the students in grades 5-8.</li> <li>• Evaluate the effectiveness of the video production labs 6-8 and 9-12 and determine if they are meeting the identified needs.</li> <li>• Students access to on-line tools and resources in the areas of ELA, Math, Science, Social Studies, and Technology will continually be evaluated through a race and equity lens.</li> <li>• Students will use existing technology devices to access personalized learning and blended learning opportunities</li> </ul>	<ul style="list-style-type: none"> <li>• The Technology Advisory Committee will continue to meet throughout the school year to plan for the implementation of the 6-12 Technology Standards, evaluation of hardware and software and discuss Technology functionality district-wide.</li> <li>• Expand or reduce the video production labs based on successes or challenges identified during the years of implementation.</li> <li>• Evaluate additional technology needs in each discipline and determine if different technology needs are required in order to enhance the students' learning experiences (Example: Laptops for Science)</li> <li>• Students access to on-line tools and resources in the areas of ELA, Math, Science, Social Studies, and Technology will continually be evaluated through a race and equity lens.</li> </ul>	<ul style="list-style-type: none"> <li>• If the previous year's evaluation determines that certain subjects need additional technology to enhance their content, those devices will be purchased.</li> <li>• The Technology Advisory Committee will continue to meet throughout the school year to plan for the implementation of the 6-12 Technology Standards, evaluation of hardware and software and discuss Technology functionality district-wide.</li> <li>• Students access to on-line tools and resources in the areas of ELA, Math, Science, Social Studies, and Technology will continually be evaluated through a race and equity lens.</li> <li>• Students will use existing technology devices to access personalized learning and blended learning opportunities as provided by Tukwila School District staff members.</li> </ul>

	<ul style="list-style-type: none"> <li>• Students will use existing technology devices that have been provided by the school district to access personalized learning and blended learning opportunities as provided by Tukwila School District staff members while in the distance learning model.</li> <li>• Students in grades 6-12 are receiving organized lessons focused on student internet safety in advisory and other days when the regular schedule is reduced.</li> <li>• Staff will begin to align their student internet safety lessons with the new Educational Technology Standards.</li> <li>• Build a system in Hapara Analytics that accurately accounts for students in grades 6-12 participation in remote online learning.</li> <li>• Develop a take home protocol with the assistance of Destiny Resource Manager that enables students to bring their Chromebooks home on a daily basis and track loaner computers on a daily basis.</li> <li>• Evaluate the all in one computers that are located in</li> </ul>	<p>as provided by Tukwila School District staff members.</p> <ul style="list-style-type: none"> <li>• Students in grades 6-12 are receiving organized lessons focused on student internet safety on advisory and other days when the regular schedule is reduced.</li> <li>• Evaluate the quality of the alignment of the current student internet safety curriculum with the Educational Technology Standards.</li> <li>• Replace all in one computers located in the secondary libraries that are determined to be ineffective as meeting the demand placed on them.</li> </ul>	<ul style="list-style-type: none"> <li>• Students will use existing technology devices to access personalized learning and blended learning opportunities as provided by Tukwila School District staff members.</li> <li>• Students in grades 6-12 are receiving organized lessons focused on student internet safety on advisory and other days when the regular schedule is reduced.</li> <li>• Make adjustments to the current student internet safety curriculum with the Educational Technology Standards.</li> </ul>	<ul style="list-style-type: none"> <li>• Determine if the new student internet safety program is aligned with the new Educational Technology Standards and determine if it is meeting the current needs of the school district.</li> </ul>
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	<p>each secondary library in the district and determine if they need to be replaced.</p> <ul style="list-style-type: none"> <li>• Hire a Special Education staff member to serve the technology needs of the special education students in grades 6-12.</li> <li>• Develop a plan to provide in home internet services to students in grades 6-12 after the pandemic has ended</li> </ul>			
<p><b>Computer Science Education K-5</b></p>	<ul style="list-style-type: none"> <li>• Research K-5 Computer Science Education and determine appropriate expectations by grade level for distance learning model and/or Hybrid Model.</li> <li>• Develop a scope and sequence of lessons and activities related to K-5 Computer Science Education.</li> <li>• Attend bi-monthly Technology Meeting at the PSESD.</li> </ul>	<ul style="list-style-type: none"> <li>• Implement a K-5 Computer Science Education program that aligns with the New WA State Technology Standards and integrates Computer Coding as a significant part of the curriculum.</li> <li>• Attend bi-monthly Technology Meetings at the PSESD.</li> </ul>	<ul style="list-style-type: none"> <li>• Monitor and evaluate first year of K-5 Computer Science Education Program and determine successes and challenges.</li> <li>• Attend bi-monthly Technology Meetings at the PSESD.</li> </ul>	<ul style="list-style-type: none"> <li>• Make changes to the K-5 Computer Science Education Program based on feedback from administrators, teachers, students and families.</li> <li>• Attend bi-monthly Technology Meetings at the PSESD.</li> </ul>
<p><b>Computer Science Education 6-12</b></p>	<ul style="list-style-type: none"> <li>• Research 6-8 Computer Science Education and determine appropriate expectations by grade level for a distance learning model and/or Hybrid model.</li> <li>• Develop a scope and sequence of lessons and activities related to 6-8 Computer Science Education.</li> </ul>	<ul style="list-style-type: none"> <li>• Implement a 6-8 Computer Science Education program that aligns with the New WA State Technology Standards and integrates Computer Coding as a significant part of the curriculum.</li> <li>• Attend bi-monthly Technology Meetings at the PSESD.</li> </ul>	<ul style="list-style-type: none"> <li>• Monitor and evaluate first year of 6-8 Computer Science Education Program and determine successes and challenges.</li> <li>• Make appropriate changes to existing program in order to improve its effectiveness.</li> <li>• Attend bi-monthly Technology Meetings at the PSESD.</li> </ul>	<ul style="list-style-type: none"> <li>• Make changes to the 6-8 Computer Science Education Program based on feedback from administrators, teachers, students and families.</li> <li>• Attend bi-monthly Technology Meetings at the PSESD.</li> </ul>

	<ul style="list-style-type: none"> <li>• Develop a CTE Computer Programming course for students in grades 6-8.</li> <li>• Attend bi-monthly Technology Meetings at the PSESD.</li> </ul>	<ul style="list-style-type: none"> <li>• Create additional interest in CTE AP Computer Science 9-12 at the high school and reinstate that course offering.</li> </ul>		
<p align="center"><b>CTE/STEM Career Pathways K-5</b></p>	<ul style="list-style-type: none"> <li>• Monitor the level of equal access for all students K-5 for the Creative Learning Labs for the purposes of K-5 career exploration and exposure to STEM focused instructional activities.</li> <li>• All 3 elementary school will have their Creative Learning Labs up and running and serving all students K-5.</li> <li>• Continue to offer and support the grade 4/5 Robotics Program at all 3 elementary schools.</li> <li>• Complete an i-Grant focused on grades 4-8 Washington Grant-1<sup>st</sup> Lego League.</li> <li>• Work with the robotics facilitators at each school to develop a budget for the grant funds that were secured for 4-8 Washington Grant-1<sup>st</sup> Lego League.</li> </ul>	<ul style="list-style-type: none"> <li>• Evaluate the degree to which all students K-5 have equal access to the Creative Learning Labs for the purposes of K-5 career exploration and exposure to STEM focused instructional activities.</li> <li>• Continue to offer and support the grade 4/5 Robotics Program at all 3 elementary schools.</li> </ul>	<ul style="list-style-type: none"> <li>• Make adjustments to each of the K-5 Creative Learning Labs in order to create equity for all students in each of the schools based on the equity evaluation completed the previous year.</li> <li>• Continue to offer and support the grade 4/5 Robotics Program at all 3 elementary schools.</li> <li>• Evaluate the condition of the computers in the Creative Learning Lab in grades K-5 and determine if they are able to meet the demands placed in them.</li> </ul>	<ul style="list-style-type: none"> <li>• Implement the changes that were identified in the evaluation of the Creative Learning Labs the previous year.</li> <li>• Continue to offer and support the grade 4/5 Robotics Program at all 3 elementary schools.</li> </ul>

<p style="text-align: center;"><b>CTE/STEM Career Pathways 6-12</b></p>	<ul style="list-style-type: none"> <li>• CTE staff and the Technology Advisory Committee will partner to develop clear career pathways in the area of STEM/CTE.</li> <li>• Set up new and existing technology in the new spaces at Foster High School and Showalter Middle School.</li> <li>• Continue to use the Creative Learning Labs for the 6-8 career exploration and exposure to STEM focused activities.</li> <li>• Recruit post-secondary institutions for articulation agreements that align with STEM/CTE computer programming at the high school.</li> <li>• Develop a Middle School Robotics Program for students in grades 6-8.</li> <li>• Continue to build out and support the high school Robotics class by purchasing additional equipment that extends the students abilities in various CTE/STEM areas.</li> <li>• Complete an i-Grant focused on grades 7-12 1st Washington Grant-1<sup>st</sup> Tech Challenge and 9-12-1<sup>st</sup> Robotic Challenge.</li> <li>• Work with the robotics facilitators at each school to develop a budget for the grant</li> </ul>	<ul style="list-style-type: none"> <li>• Research the possibility of offering computer related courses after school to the community members who could benefit.</li> <li>• Monitor the effectiveness of the Creative Learning Labs related to exposure to STEM careers and related concepts at the middle school and make adjustments where necessary.</li> <li>• Continue to offer and support the grade 6-8 Robotics Program at the middle school.</li> <li>• Continue to build out and support the high school Robotics class by purchasing additional equipment that extends the students abilities in various CTE/STEM areas.</li> </ul>	<ul style="list-style-type: none"> <li>• Evaluate the success of the Creative Learning Labs with regards to student knowledge regarding STEM/CTE occupations and determine if the high school and beyond plans reflect an increase interest in STEM/CTE careers.</li> <li>• Offer computer science classes to adult learners after school and assist them with career development. (ALE).</li> <li>• Continue to offer and support the grade 6-8 Robotics Program at the middle school.</li> <li>• Continue to build out and support the high school Robotics class by purchasing additional equipment that extends the students abilities in various CTE/STEM areas.</li> <li>• Evaluate the condition of the computers in the Creative Learning Lab in grades 6-8 and determine if they are able to meet the demands placed in them.</li> </ul>	<ul style="list-style-type: none"> <li>• Implement the changes that were identified in the evaluation of the Creative Learning Labs the previous year.</li> <li>• Implement the changes that were identified in the evaluation of the adult learning after school program the previous year.</li> <li>• Continue to offer and support the grade 6-8 Robotics Program at the middle school.</li> <li>• Continue to build out and support the high school Robotics class by purchasing additional equipment that extends the students abilities in various CTE/STEM areas.</li> </ul>
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	funds that were secured for 7-12 1st Washington Grant-1 <sup>st</sup> Tech Challenge and 9-12-1 <sup>st</sup> Robotic Challenge.			
<b>Professional Development and Technology Support</b>	<ul style="list-style-type: none"> <li>• Monitor current Technology related professional development in the school district and determine if needs are being met in a distance learning model.</li> <li>• Continue to offer after school PD opportunities that connect Tech Levy tools, student productivity suite, and Teaching and Learning curriculum.</li> <li>• Supporting one on one staff needs which are differentiated based on the needs the staff(s).</li> <li>• Tech Department will continue to assist staff, students and parents with trouble shooting and diagnosing technology related issues.</li> </ul>	<ul style="list-style-type: none"> <li>• Continue to offer after school PD opportunities that connect Tech Levy tools, student productivity suite, and Teaching and Learning curriculum.</li> <li>• Supporting one on one staff needs which are differentiated based on the needs the staff(s).</li> <li>• Tech Department will continue to assist staff with trouble shooting and diagnosing technology related issues.</li> <li>• Monitor current Technology related professional development in the school district and determine if needs are being met.</li> </ul>	<ul style="list-style-type: none"> <li>• Continue to offer after school PD opportunities that connect Tech Levy tools, student productivity suite, and Teaching and Learning curriculum.</li> <li>• Supporting one on one staff needs which are differentiated based on the needs the staff(s).</li> <li>• Tech Department will continue to assist staff with trouble shooting and diagnosing technology related issues.</li> <li>• Monitor current Technology related professional development in the school district and determine if needs are being met.</li> </ul>	<ul style="list-style-type: none"> <li>• Continue to offer after school PD opportunities that connect Tech Levy tools, student productivity suite, and Teaching and Learning curriculum.</li> <li>• Supporting one on one staff needs which are differentiated based on the needs the staff(s).</li> <li>• Tech Department will continue to assist staff with trouble shooting and diagnosing technology related issues.</li> <li>• Monitor current Technology related professional development in the school district and determine if needs are being met.</li> </ul>
<b>Internet and Network</b>	<ul style="list-style-type: none"> <li>• Monitor the development of wireless technology and determine which technology best meets the needs of our devices and use.</li> <li>• Install and monitor a new Firewall for TSD and fine tune it to meet existing needs.</li> </ul>	<ul style="list-style-type: none"> <li>• Monitor the development of wireless technology and determine which technology best meets the needs of our devices and use.</li> <li>• Monitor the effectiveness of the existing firewall and determine</li> </ul>	<ul style="list-style-type: none"> <li>• A decision will be made on which wireless technology will be purchased and installed district-wide.</li> <li>• Continue to monitor existing Firewall for effectiveness and fine tune it to meet existing needs.</li> </ul>	<ul style="list-style-type: none"> <li>• Monitor the effectiveness of the newly installed wireless technology and determine what adjustments need to be made to maximize its effectiveness.</li> <li>• Provide staff required information to keep the network safe from cyberattacks.</li> </ul>

	<ul style="list-style-type: none"> <li>• Provide staff required information to keep the network safe from cyberattacks.</li> </ul>	<p>if it is meeting TSD and fine tune it to meet existing needs.</p> <ul style="list-style-type: none"> <li>• Provide staff required information to keep the network safe from cyberattacks.</li> </ul>	<ul style="list-style-type: none"> <li>• Provide staff required information to keep the network safe from cyberattacks.</li> </ul>	<ul style="list-style-type: none"> <li>• Continue to monitor existing Firewall for effectiveness and fine tune it to meet existing needs.</li> </ul>
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