

# Tukwila School District Technology Plan 2019-2023

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	2019-2020	2020-2021	2021-2022	2022-2023
<b>Certificated Staff Technology Use</b>	<ul style="list-style-type: none"> <li>• Begin to analyze how to transition from all in one presentation computers to laptops.</li> <li>• A portion of Showalter Middle School will be piloting new flat panel presentation stations.</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> </ul>	<ul style="list-style-type: none"> <li>• Transition from the presentation all in one computers to laptops grades 9-12.</li> <li>• Continue to replace the current presentation projectors in all schools with new flat panel or new SMART Boards.</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> </ul>	<ul style="list-style-type: none"> <li>• Transition from the presentation all in one computers to laptops grades 6-8.</li> <li>• Continue to replace the current presentation projectors in all schools with new flat panel or new SMART Boards.</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> </ul>	<ul style="list-style-type: none"> <li>• All certificated staff will receive new laptops.</li> <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> </ul>
<b>Classified Staff Technology Use</b>	<ul style="list-style-type: none"> <li>• Para-educator staff received new laptops that have been reconditioned.</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>• All classified staff will receive new laptops.</li> <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> </ul>
<b>Student Technology Use K-5</b>	<ul style="list-style-type: none"> <li>• The Technology Advisory Committee will continue to meet 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</li> </ul>	<ul style="list-style-type: none"> <li>• The Technology Advisory Committee will continue to meet throughout the school year</li> </ul>	<ul style="list-style-type: none"> <li>• The Technology Advisory Committee will continue to meet throughout the school year to plan</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 will continue to have access to on-line tools and resources in the areas of ELA, Math, Science, Social Studies, and Technology.</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> <li>• <b>The librarians at the elementary school level deliver a student internet safety curriculum that is a combination of e-book lessons and activities such as: Be internet awesome, cybersmarts and common sense media.</b></li> </ul>	<p>to 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>• Determine what student devices will be purchased for students in grades 2-4.</li> <li>• Students will continue to have access to on-line tools and resources in the areas of ELA, Math, Science, Social Studies, and Technology.</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> <li>• <b>Staff should evaluate how the current student internet safety program aligns with the new Education Technology Standards.</b></li> </ul>	<p>to 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>• Purchase new student devices for the students in grades 2-4.</li> <li>• Determine what student devices will be purchased for students in grades K-2</li> <li>• Students will continue to have access to on-line tools and resources in the areas of ELA, Math, Science, Social Studies, and Technology.</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> <li>• <b>Revise the student internet safety program based on the alignment suggestions that were made the previous year.</b></li> </ul>	<p>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>• Purchase new student devices for the students in grades K-2.</li> <li>• Students will continue to have access to on-line tools and resources in the areas of ELA, Math, Science, Social Studies, and Technology.</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> <li>• <b>Offer a revised student internet safety program that is aligned with the new Educational Technology Standards.</b></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</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</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</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</li> </ul>

	<p>software and discuss Technology functionality district-wide <b>including taking the devices home during the school year.</b></p> <ul style="list-style-type: none"> <li>• Determine what student devices will be replaced for students in grades 9-12.</li> <li>• Continue to support the middle school video labs and increase their use across the school day and.</li> <li>• Evaluate the concept of adding a video production lab at the high school.</li> <li>• Students will continue to have access to on-line tools and resources in the areas of ELA, Math, Science, Social Studies, and Technology.</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> <li>• <b>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.</b></li> </ul>	<p>hardware and software and discuss Technology functionality district-wide.</p> <ul style="list-style-type: none"> <li>• Purchase new student devices for the students in grades 9-12.</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>• Students will continue to have access to on-line tools and resources in the areas of ELA, Math, Science, Social Studies, and Technology.</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> <li>• <b>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.</b></li> <li>• <b>Staff will begin to align their student internet safety lessons with the new Educational Technology Standards.</b></li> </ul>	<p>hardware and software and discuss Technology functionality district-wide.</p> <ul style="list-style-type: none"> <li>• Determine what student devices will be purchased for 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 will continue to have access to on-line tools and resources in the areas of ELA, Math, Science, Social Studies, and Technology.</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> <li>• <b>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.</b></li> <li>• <b>Evaluate the quality of the alignment of the current student internet safety curriculum with the Educational Technology Standards.</b></li> </ul>	<p>software and discuss Technology functionality district-wide.</p> <ul style="list-style-type: none"> <li>• Purchase new student devices for the students in grades 5-8.</li> <li>• Expand or reduce the video production labs based on successes or challenges identified during the years of implementation.</li> <li>• Students will continue to have access to on-line tools and resources in the areas of ELA, Math, Science, Social Studies, and Technology.</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> <li>• <b>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.</b></li> <li>• <b>Make adjustments to the current student internet safety curriculum with the Educational Technology Standards.</b></li> </ul>
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<p align="center"><b>Computer Science Education K-5</b></p>	<ul style="list-style-type: none"> <li>• Continue to research what other local school districts are doing in the area of K-5 Computer Science Education and determine which strategies are appropriate for TSD.</li> <li>• Attend bi-monthly Technology Meetings at the PSESD.</li> <li>• Determine the appropriate level of computer coding that TSD students should be exposed to at each grade level.</li> </ul>	<ul style="list-style-type: none"> <li>• Research K-5 Computer Science Education and determine appropriate expectations by grade level.</li> <li>• Develop a scope and sequence of lessons and activities related to K-5 Computer Science Education.</li> <li>• Attend bi-monthly Technology Meetings 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>• Make appropriate changes to existing program in order to improve its effectiveness.</li> <li>• Attend bi-monthly Technology Meetings at the PSESD.</li> </ul>
<p align="center"><b>Computer Science Education 6-12</b></p>	<ul style="list-style-type: none"> <li>• Continue to research what other local school districts are doing in the area of 6-8 Computer Science Education and determine which strategies are appropriate for TSD.</li> <li>• Determine the appropriate level of computer coding that TSD students should be exposed to at each grade level.</li> <li>• Create additional interest in CTE AP Computer Science 9-12 at the high school and reinstate that course offering.</li> <li>• Attend bi-monthly Technology Meetings at the PSESD.</li> </ul>	<ul style="list-style-type: none"> <li>• Research 6-8 Computer Science Education and determine appropriate expectations by grade level.</li> <li>• Develop a scope and sequence of lessons and activities related to 6-8 Computer Science Education.</li> <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>• 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>

<p align="center"><b>CTE/STEM Career Pathways K-5</b></p>	<ul style="list-style-type: none"> <li>• Create equal access for all students K-5 to the Creative Learning Labs for the purposes of K-5 career exploration and exposure to STEM focused instructional activities.</li> <li>• Continue to problem-solve issues related to staff FTE in each of the schools Creative Learning Labs.</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>• 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> </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> </ul>
<p align="center"><b>CTE/STEM Career Pathways 6-12</b></p>	<ul style="list-style-type: none"> <li>• Continue to use the Creative Learning Labs for the 6-8 career exploration and exposure to STEM focused activities.</li> <li>• Research increasing STEM/CTE offerings at grades 6-8.</li> <li>• Continue to offer and support the grade 6-8 Robotics Program at the middle school.</li> <li>• The high school is starting a CTE Robotics program this year called 1<sup>st</sup> Robotics. It functions as an after school class and club outside the class time.</li> <li>• CTE staff and the Technology Advisory Committee will partner to develop clear career pathways in the area of STEM/CTE.</li> </ul>	<ul style="list-style-type: none"> <li>• Continue to use the Creative Learning Labs for the 6-8 career exploration and exposure to STEM focused activities.</li> <li>• Add additional STEM/CTE career pathways that focus on the area of computer science.</li> <li>• Recruit post-secondary institutions for articulation agreements that align with STEM/CTE computer programming at the high school.</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</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</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</li> </ul>

		additional equipment that extends the students abilities in various CTE/STEM areas.	extends the students abilities in various CTE/STEM areas.	that extends the students abilities in various CTE/STEM areas.
<b>Professional Development and Technology Support</b>	<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>	<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>Research new access points such as: 802.11ax Technology as we transition from 802.11AC WAVE 2 Technology.</li> <li>Preparing to upgrade and update the TSD Firewall</li> <li>Provide staff required information to keep the network safe.</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>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 if it is meeting TSD and fine tune it to meet existing needs.</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 and monitor existing Firewall for effectiveness and fine tune it to meet existing needs.</li> <li>Provide staff required information to keep the network safe.</li> </ul>

		<ul style="list-style-type: none"><li>• Provide staff required information to keep the network safe.</li></ul>	<ul style="list-style-type: none"><li>• Provide staff required information to keep the network safe.</li></ul>	
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