

# Cass City Public Schools

## 3-5 Year Technology Plan

2018-19, 2019-20, 2020-21, 2021-2022, 2022-2023

### Technology Team and Planning Structure

District Team	HS Team	ES Team
Jeff Hartel (Superintendent) Aaron Fernald (ES Principal) Chad Daniels (Jr/Sr High Principal) HS Team ES Team	Amy Tamlyn (Math) Christina Swiderski (English) Jane Ignash (Soc Studies) Bill Hartzell (Soc Studies) TC Gruber (Science) Reed Keyser (IT Dept) Lyle Severance (IT Dept)	Linda Stec (Middle EI) Marnie Hacker (Upper EI) Deb Peruski (Lower EI) Reed Keyser (IT Dept) Lyle Severance (IT Dept)

The District Team meets the first Tuesday of Jan, Mar, May, Sep, and Nov.

The HS Team meets the first Tuesday of Feb, April, Jun, Oct and Dec.

The ES Team meets the second Tuesday of Feb, April, Jun, Oct and Dec.

The teams were formed by selecting an individual from each core curriculum area or grade level area. (Lower EI, Middle EI and Upper EI) (Math, English, Social Studies, Science)

## Curriculum & Instruction

	2018-2019	2019-2020	2020-2021	2021-2022	2022-2023
<p>Curriculum and Instruction are determined by the Departments or Grade Level teams within each building and therefore, this structure provides a direct conduit between each group and the Technology Team. Likewise, instructional practices are compared/contrasted/developed by the building teams as well as the Technology Team. The Technology Team will continue to be an integral part of the process ensuring that the use of technology is aligned with curriculum and instruction goals.</p> <p>Proper use of technology in the classroom doesn't make more work for the teacher or students. Instead, it allows them to reach their goals more effectively and efficiently. IE, more quickly, less effort or with a better end product</p>	<input type="checkbox"/> Start promotion and support of Google Apps For Education (GAPE) as an effective and efficient tool to augment classroom instruction.  Google Drive Google Docs Google Sheet Google Slides Google Classroom Google Forms Google Earth	<input type="checkbox"/> Extensive promotion of Google Classroom as a central, technology enabled, way to manage teaching and learning.	<input type="checkbox"/> Continued focus on leveraging GAPE into the curriculum for learning management and curriculum delivery		
	<input type="checkbox"/> Continued research and support of subject area and/or lesson specific resources. <ul style="list-style-type: none"> <li>● Khan Academy</li> <li>● Socrative</li> <li>● Reading Counts</li> <li>● Study Island</li> <li>● Compass Learning</li> <li>● Reading Street</li> <li>● PearDeck</li> <li>● SeeSaw</li> </ul> And MANY more...				
	<input type="checkbox"/> Explore expansion of VEX Robotics program through MISTem Network - Upper thumb Region in coordination with existing Robotics and STEM classes programs	<input type="checkbox"/> Develop plans for upgrading/expanding STEM facilities & labs	<input type="checkbox"/> Start exploration of digital broadcast program -news casts -bulletins	Formative / Summative Assessment using EXISTING Technology  -Chromebooks -"Clickers" (Student Response Systems)	

<b>Assessment</b>					
	<b>2018-2019</b>	<b>2019-2020</b>	<b>2020-2021</b>	<b>2021-2022</b>	<b>2022-2023</b>
Continue promotion and support of classroom, local, State and Federal technology enabled assessments	<input type="checkbox"/> MSTEP Extensive priority is given to preparing and supporting the 6 desktop computer labs for use with the MSTEP. We also will be piloting the use of Chromebooks as a testing device. We will be having 25-30 7th graders and 25-30 8th graders use Chromebooks. In addition, 20 Juniors will take the SAT on Chromebooks	<input type="checkbox"/> MSTEP We will continue to watch data and trends to measure the differences between testing in a desktop lab environment vs a mobile Chromebook environment.  -Right now, the English MSTEP needs to be given on a desktop computer.			
	<input type="checkbox"/> Future High Stakes Assessments Pilot, prepare and support future assessments in a technology enabled environment. ie. ACT, PSAT				
	<input type="checkbox"/> WIDA Administer the WIDA test to our Foreign Exchange students using Chromebooks				
	<input type="checkbox"/> Skyward Continue supporting Skyward as a testing infrastructure for classroom assessments				
	<input type="checkbox"/> Grademaster Continue facilitating the smooth transfer of scores from bubble sheets into the Skyward Gradebook				

Professional Development					
	2018-2019	2019-2020	2020-2021	2021-2022	2022-2023
Identify PD Needs	<input type="checkbox"/> Survey staff (annually) to determine known PD needs				
Maintain tight integration with grade level and departmental teams	<input type="checkbox"/> As curriculum is developed and evolves, maintain tight integration with departmental and grade level teams to identify coming PD needs				
Attend PD to bring back ideas and training	<input type="checkbox"/> Teaching staff from each building, administration and the IT department attend the MACUL conference				
	<input type="checkbox"/> Attend Mi Google Conference in Freeland				
	<input type="checkbox"/> <i>Present at Staff/Departmental meeting to share new knowledge</i>				
Conduct in-house PD to share ideas learned from conference	<input type="checkbox"/> Develop and conduct after school Tech Tidbits for staff <ul style="list-style-type: none"> <li>● 5-10 minute helpful technology “tidbits”</li> </ul>				
	<input type="checkbox"/> Tech team members give presentations at grade level, departmental and/or staff meetings				

## Equipment & Infrastructure - Instructional

	2018-2019	2019-2020	2020-2021	2021-2022	2022-2023
iPads Classroom set of 6 for every classroom K-3		<ul style="list-style-type: none"> <li>✓ Replace 24 - Kindergarten iPads</li> <li>-Jaworski - REPLACE 2/2020</li> <li>-Stoutenburg - REPLACE 2/2020</li> <li>-Gruber - REPLACE 2/2020</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> <b>Bond: Replace iPads</b></li> <li><b>-1st &amp; 2nd grade iPads</b></li> <li><b>--1st grade - 24</b></li> <li><b>--2nd grade - currently 47</b></li> <li><b>-Maurer (Y5) - 8</b></li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Evaluate 3 &amp; 4th grade iPad and usage and replacement needs</li> </ul>	
Lab Desktops 3 Labs at the HS 4 Labs at the ES	<ul style="list-style-type: none"> <li>✓ Most labs were refreshed with computers from Baker College</li> </ul>	<ul style="list-style-type: none"> <li><b>Bond: Lab 403 will be split into two rooms</b></li> <li><b>-East will remain a computer lab</b></li> <li><b>-West will become Robotics Room</b></li> <li><input type="checkbox"/> Assess need for Labs and replace as necessary. Right the main usage for labs in interventions and high stakes testing (MSTEP)</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Assess need for Labs and replace as necessary. Currently, the main usage for labs is interventions and high stakes testing (MSTEP)</li> </ul>		
Desktops -classroom -office staff	<ul style="list-style-type: none"> <li>✓ Remove classroom desktops when issued a Chromebook cart</li> </ul>	<ul style="list-style-type: none"> <li>✓ Remove classroom desktops when issued a Chromebook cart</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> <b>Bond: Replace office staff PCs</b></li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> <b>Bond: Replace Classroom desktops</b></li> </ul>	
Chromebook carts	<ul style="list-style-type: none"> <li>✓ Replace 2 carts of existing old laptops</li> <li>-Bailey</li> <li>-Kimble</li> </ul>	<ul style="list-style-type: none"> <li>✓ Convert cart of laptops to "Chromebooks"</li> <li>-HS 110 Walker</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Convert cart of laptops to "Chromebooks"</li> <li>-HS 201 (Reif)</li> <li><input type="checkbox"/> Replace 6th grade cart of iPads with Chromebooks</li> </ul>		<ul style="list-style-type: none"> <li><input type="checkbox"/> <b>Bond: Replace 5 carts of Chromebooks</b></li> <li><b>-ES 702</b></li> <li><b>-ES 802</b></li> <li><b>-HS 102</b></li> <li><b>-HS 207</b></li> <li><b>-HS 304</b></li> </ul>
	<ul style="list-style-type: none"> <li>✓ Add 4 classroom carts</li> <li>-ARoss</li> <li>-MHacker</li> <li>-LGreen</li> <li>-LStec</li> </ul>	<ul style="list-style-type: none"> <li>✓ Add 3-4 classroom carts</li> <li>-Stec ES 705 - <i>completed 8/2019</i></li> <li>-Murdoch ES 701-<i>completed 8/2019</i></li> <li>-Cotton ES 707 - <i>completed 8/2019</i></li> <li>-Graff HS 303 - <i>completed 8/2019</i></li> <li>-MSweeney - <i>complete 2/2020</i></li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Add 2 classroom cart of Chromebooks</li> <li>-Buxman - HS 201</li> <li>-Middleton - HS 103</li> </ul>		

## Equipment & Infrastructure - Instructional (continued)

	2018-2019	2019-2020	2020-2021	2021-2022	2022-2023
Classroom A/V		<input type="checkbox"/> Classroom modernization through CDWG <input type="checkbox"/> Conduct Tech Day <input type="checkbox"/> <b>Bond Need:</b> <i>-Purchase demo systems for eval during 20-21 year</i>	<input type="checkbox"/> <b>Bond Needs: Summer 2021 - Classrooms refreshed (HS or ES or both)</b> <ul style="list-style-type: none"> <li>• Projector</li> <li>• Sound system</li> <li>• Whiteboard</li> <li>• Document Camera</li> <li>• Chromecast</li> </ul>		

## Equipment & Infrastructure - Non Instructional

	2018-2019	2019-2020	2020-2021	2021-2022	2022-2023
Network Switching (wired infrastructure)		<input type="checkbox"/> <b>Bond needs: Replace core switch in Bus Garage (Erate discounted)</b>			<input type="checkbox"/> <b>Bond: Update Wired switching Infrastructure</b>
Wireless Network		<input type="checkbox"/> Summer 2020: <b>Bond Needs: -Update Wireless System (Erate discounted)</b>			<input type="checkbox"/> <b>Bond: Update Wireless System (Erate discounted)</b>
Security - Cameras	✓ installed new security cameras	✓ Installed more new and upgraded some existing cameras -currently at 83 cameras (9/19/2020)	<input type="checkbox"/> Looking at grant money to add 10-15 more cameras		<input type="checkbox"/> <b>Bond: Upgrade surveillance storage server</b>
Security - Door Access		<input type="checkbox"/> Looking at a centrally managed Door Access solution to provide central management of doors and keys as well as a history of door traffic.			
Security - Paging System		<input type="checkbox"/> <b>Bond Needs: Replace Paging system in all 3 buildings -add paging into Ag barn</b>			
Phone System		<input type="checkbox"/> Begin replacement of phones (upgrade to phones with speaker phone capability) 10-15 Phones replaced	<input type="checkbox"/> Continue replacement phones (upgrade to phones with speaker phone capability) <b>Bond Needs: 90 Phones</b>		

<b>Parent &amp; Family Engagement / Marketing</b>					
	<b>2018-2019</b>	<b>2019-2020</b>	<b>2020-2021</b>	<b>2021-2022</b>	<b>2022-2023</b>
Website & Digital Communication		<input type="checkbox"/> Explore “Meet the Teacher” videos -Individual teacher introducing themselves and/or their classroom -allows students to “meet their teacher even before open houses	<input type="checkbox"/> Establish/maintain “Procedure videos” & possibly tie them to the enrollment process -Traffic flow -Student handbooks -etc  <input type="checkbox"/> Evaluate communication procedures and efficiency -Emergency notifications -District app and push notifications		
Social Media -Facebook -Twitter		<input type="checkbox"/> Expand usage of Facebook for news events	<input type="checkbox"/> Kickoff initiative of regular “Facebook Live” events -develop schedule -develop content, ie: band concerts, graduation, board meetings, STEM fair, Robotics competitions	<input type="checkbox"/> Continue regular use of “Facebook Live” events to promote our students, staff and school  <input type="checkbox"/> Explore Live Streaming of MHSAA sporting events	