Proposed Technology Budget 2018-2019



March 28, 2018

Joshua Culwell-Block Director of Technology & Innovation

Adopting the Innovative Mindset

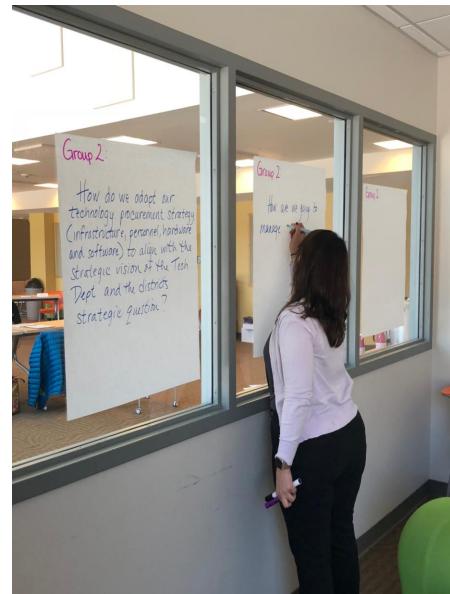


Technology Department Vision

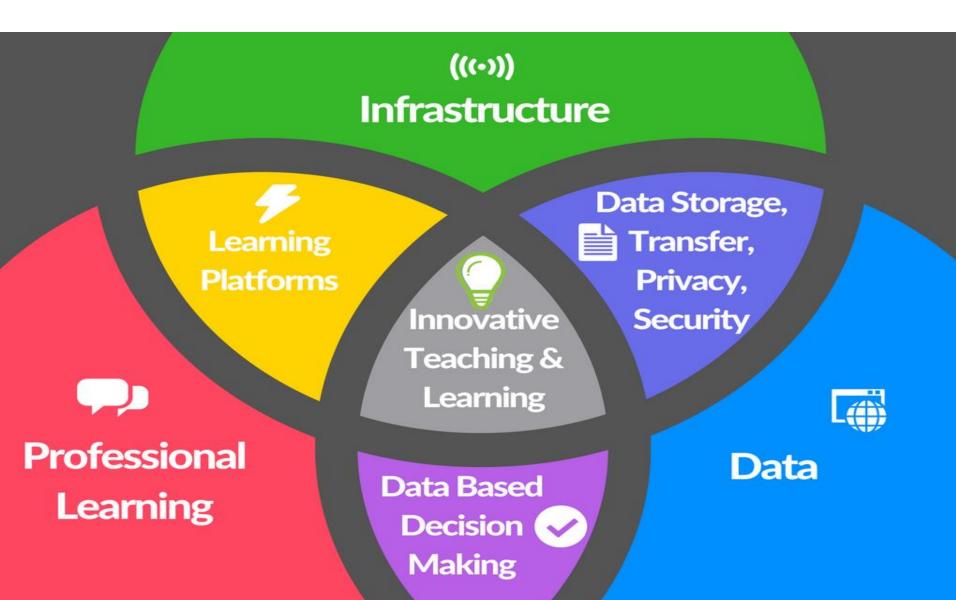
The Chappaqua Central School District will create an innovative, agile atmosphere of learning, that leverages advanced instructional technologies to support active learning environments. We will continually improve our infrastructure, systems and support to advance district instructional visions and goals.

Technology Department Operational Questions

- How do we adapt our technology procurement & implementation strategy (infrastructure, personnel, hardware, software, & web-based applications) to align with the vision of the technology department and the district's strategic questions?
- What are our operational processes and long term strategies? How can we adapt them to support district initiatives and effectively utilize our resources?
- How can we be provided with training opportunities for new technology? How do we teach it to others?



Components of a Technology Budget



Innovative Teaching & Learning

Creating spaces, leveraging technology, and facilitating learning experiences



Innovative Teaching & Learning

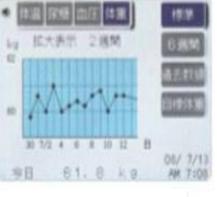


Data Storag Transfer, Privacy, Security

Why?





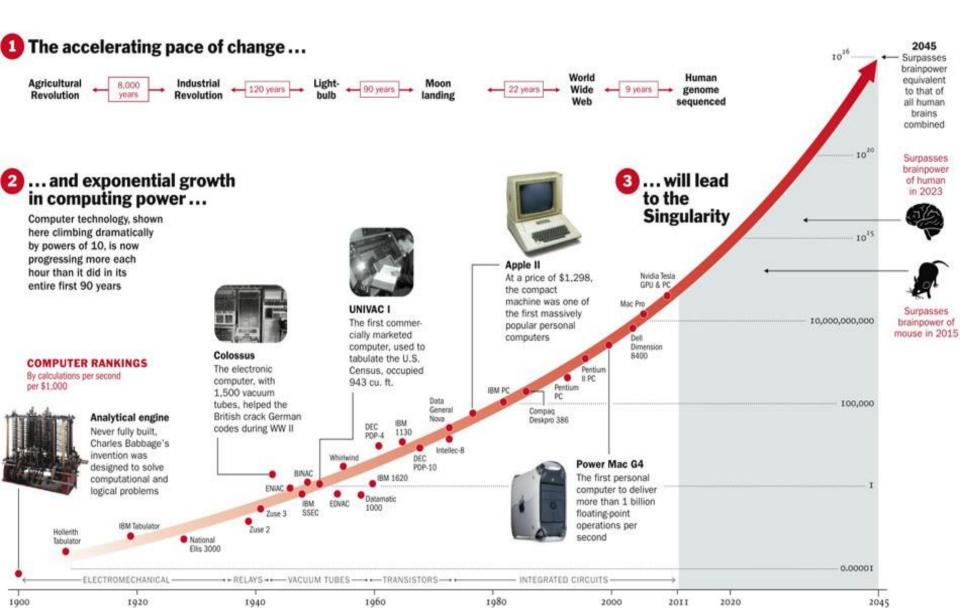




AC MARKE



Technology Advancements



How do we teach skills in our classrooms?



- Student-Centered Learning Skills (knowing how to learn and problem solve)
 - Process Skills Dispositional Skills Thinking Skills
- Application Skills (knowing how to apply information to produce a solution)
- Content Knowledge (knowing the core information)

STEAM

IMAGINATION CURIOSITY The ADAPTAGILL Chappaqua Central School District has developed a framework for creative problem solving and authentic project-based learning that integrates Science, Technol-SELF-AWARENESS ogy, Engineering, Art and Mathematics (STEAM). Our mission is to provide a cohesive K-12 experience; students actively and collaboratively engage in a cyclical design process PASSION that includes brainstorming, production, and reflection. The STEAM curriculum will foster life-long skills and dispositions, enabling students to apply knowledge in an ever changing world. **BERSEVERENCE** COURAGE

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Computer Science

 Develop a K-I2 integrated Computer Science curriculum infused throughout our curriculum



NEW YORK UNIVERSITY







Digital Learning Goals

- Digital Learning Goal #I Support Chappaqua students to be thoughtful learners and critical thinkers by providing a technology-infused, active learning environment.
- Digital Learning Goal #2 Prepare Chappaqua students to become collaborative citizens.
- Digital Learning Goal #3: Create an environment that increases the value and efficiency of learning time.



Digital Learning Goals

Chappaqua Central School District 1:1 Planning Summary					
Grade	17-'18	18-'19	19-'20	20-'21	21-'22
K & 1			Planning	Implementation	Evaluation
2		Planning	Implementation	Evaluation	
3 & 4	Planning	Implementation	Evaluation		
5&6	Planning	Implementation	Evaluation		
7 & 8		Planning	Implementation	Evaluation	
9-12		Planning*	Implementation*	Evaluation*	
*UQUQ has a DXOD ration. There are also parts of computers students and homew lasters from					

*HGHS has a BYOD policy. There are also carts of computers students can borrow laptops from.

The next phase is to allocate school computers on a full-time basis to students that don't opt-in to the BYOD program.

Space

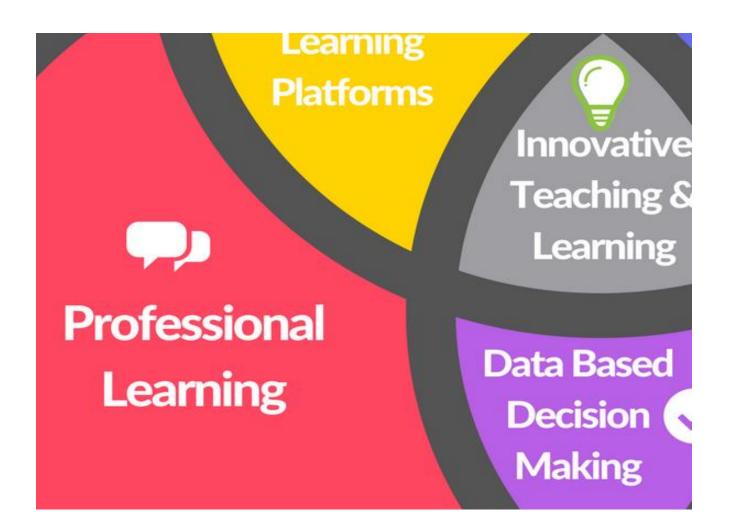








Professional Learning



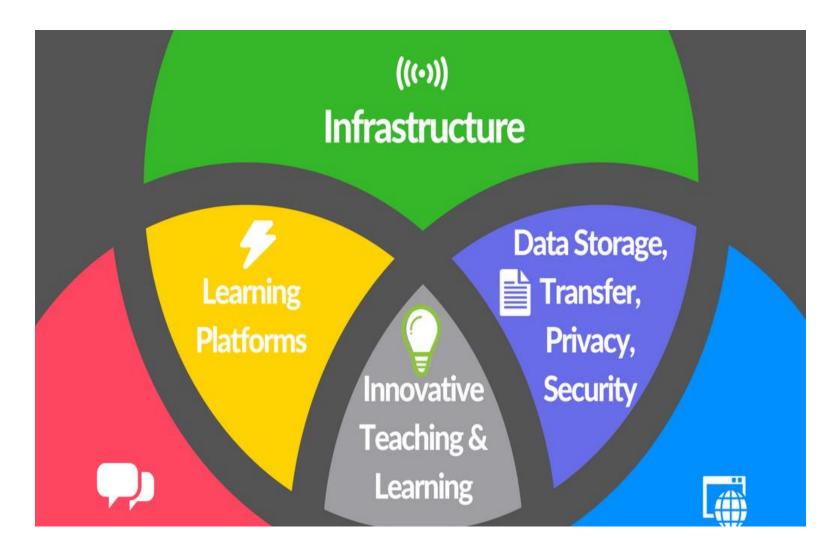
Professional Learning Opportunities

- Advanced Technology Fellows, Innovation Fellows, Collaborative Teaching Fellows, Teacher Action Research
- STEAM Learning Team, Summer Camp, Collaborative
- Classroom & Teacher Coaching
- Online & Hybrid PBL, STEAM & Technology In-Service Courses
- 3 & 4 Elementary School Computer Science Collaboration
- Professional Development Days: Learning Symposium, Canvas, Google Drive
- Global Learning Center Thought Leaders
- Elementary School Book Study Learning Teams (AMPLIFY, Habitudes)
- Summer Technology Institutes Digital Learning Initiative
- New Teacher Mentorship & Digital Learning

Technology Professional Development Focus

- Grades 3 & 4 I:I Computing & Digital Learning
- Grades 5 & 6 I:I Computing & Digital Learning
- CS/STEAM & Maker Learning Innovative Space
- Learning Management Systems Canvas and Google Classroom
- Cloud Computing Platforms GSuite & Office 365

Infrastructure

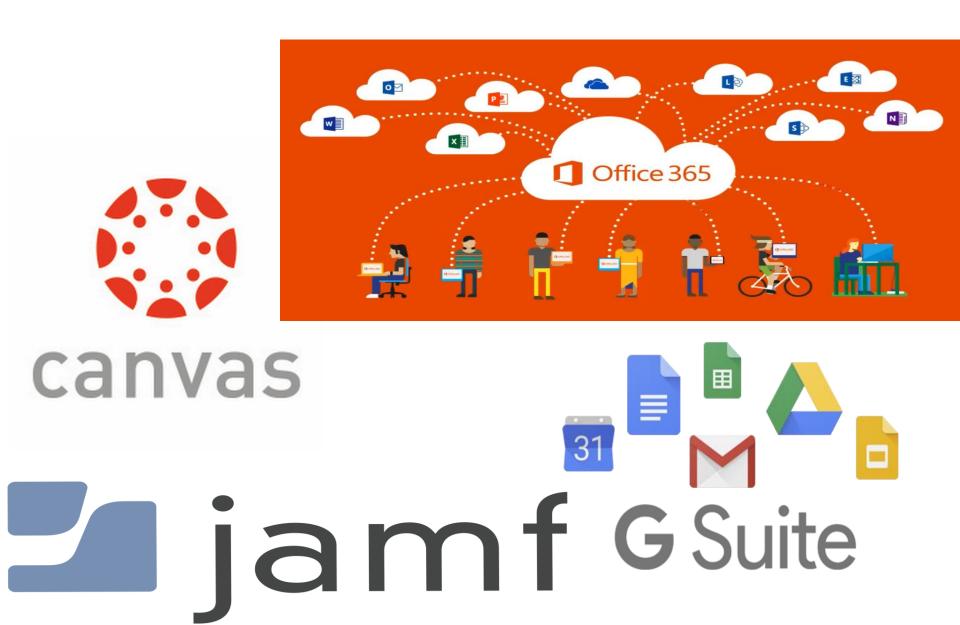


Seamlessly Integrated Systems



- Digital tools should seamlessly integrate with learning
- Members of our learning community should have similar technological experiences from location to location

Cloud Based Systems



Communications

- Finalsite <u>www.ccsd.ws</u>
- Blackboard Connect
 Emergency
 - Communication System
- Infinite Campus -Community E-mail and Student
 Information System
- Social Media





Technology Inventory

Current Inventory				
District Servers	17			
Desktop PCs	1337			
Chromebooks	605			
PC Laptops	1295			
iPads	223			
MacBooks	34			
SmartBoards & LCD Flat Panel Displays	232			
Printers	445			
3D Printers	7			

Hardware Inventory Forecast

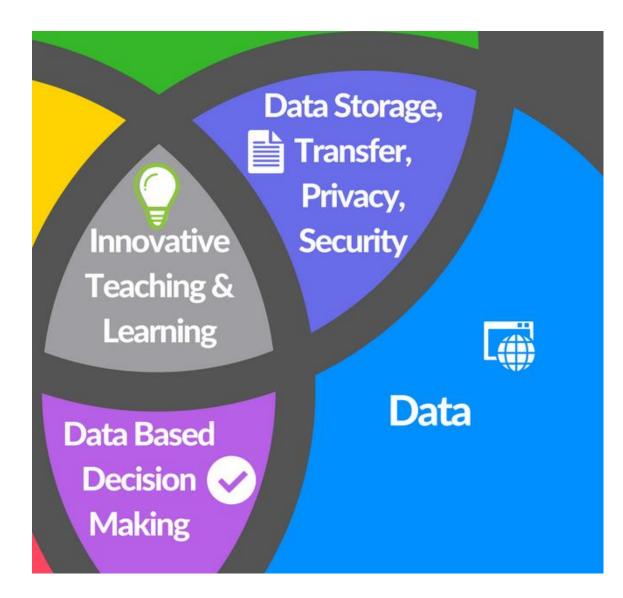
Year	iPads	MacBooks	PC Laptops	PC Desktops
Current	223	34	1295	1337
2018-19	923	104	1995	1037
2019–20	1200	164	2145	750
2020-21	1300	204	2145	500

Technology Leases

Year Begin - Year End	Amount
2014/15 - 2018/19	\$83,990
2015/16 - 2018/19	\$82,612
2017/18 - 2019/20	\$80,000
Proposed 2018/19 - 2020/21	\$215,457
Total Annual Payments	\$462,059

Data

Privacy, Protection, Reporting, Analyzing, Collecting



Privacy and Protection

- Children's Online Privacy Protection Rule ("COPPA")
- Children's Internet
 Protection Act (CIPA)
- Family Educational Rights and Privacy Act (FERPA)



Proposed Technology Budget

	2016-17		2017-18		2018-19	Approved '17-'18 vs. Proposed '18-'19	
Computer Assisted	Approved Year End		Approved Year End	Proposed			
Instruction	Budget	Actual	Budget	Projection	Budget	Variance \$	Variance %
Equipment	238,000	302,175	233,000	233,000	243,040		
Contract Services	1,116,199	1,252,303	1,210,900	1,236,900	1,273,900		
Travel/Conferences	2,500	2,012	2,500	2,500	2,500		
Technology Training	10,000	6,208	10,000	10,000	10,000		
Supplies	73,000	56,680	73,000	73,000	73,000		
State Aided Computer Software	106,920	120,370	150,960	124,960	160,000		
BOCES	-	-	30,000	30,000	30,000		
TOTAL	\$1,546,619	\$1,739,749	\$1,710,360	\$1,710,360	\$1,792,440	\$82,080	4.80%
Lease/Purchase Technology Principal & Interest	\$349,448	\$332,059	\$412,059	\$412,059	\$462,059	\$50,000	12.13%
TOTAL	\$1,896,067	\$2,071,808	\$2,122,419	\$2,122,419	\$2,254,499	\$132,080	6.22 %

(((•>)) Infrastructure

Innovative

Teaching &

Learning

Learning Platforms

Professional Learning

Data Based Decision Making Data Storage, Transfer, Privacy, Security



Data