



**CHAPPAQUA**  
Central School District

March 11, 2019

# Proposed Technology Budget 2019-2020

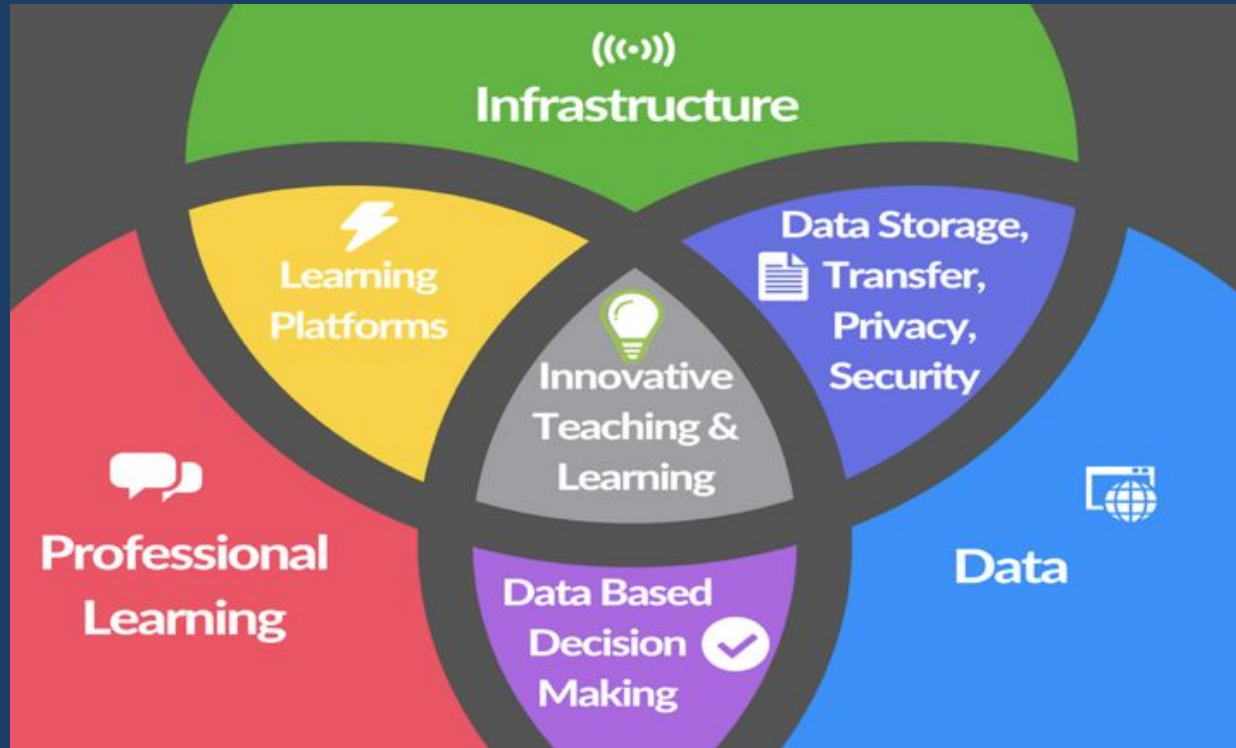
**Josh Culwell-Block**  
Director of Technology & Innovation

## 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** **secure and private** infrastructure to support and advance District instructional visions and goals.



# Budget Components



# Creating Spaces, Leveraging Technology Facilitating Learning Experiences



# Why?



Neil deGrasse Tyson ✓  
@neiltyson

Follow

Science literacy is less about what you know  
& more about how your brain is wired for  
asking questions.

12:02 PM - 26 Jun 2013

3,224 Retweets 1,956 Likes



Ellen Moskowitz Retw



Angela Stockman @AngelaStock... 6d

"We do not treat our children as  
future citizens who will inherit the  
world. They are citizens right now.  
Today. They make contributions  
today." #STIReggio

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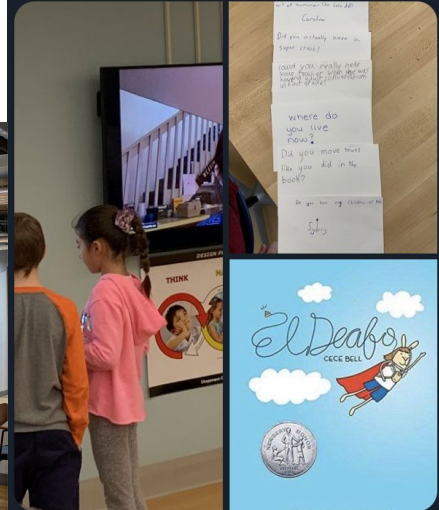


CHAPPAQUA  
Central School District



Christine Ackerman CCSD  
@chackerman1

Grafflin students Skype with CeCe  
Bell the author of El Deafo this  
morning! Thank you to our PTA for  
facilitating this for our children!  
#WeAreChappaqua @TonySinanis  
@chappaqua\_csd @DrApease  
@CarolBartlik



10:43am · 6 Dec 2018 · Twitter for iPhone  
© Chappaqua, NY, United States



# STEAM & Computer Science

THINK

MAKE

REFLECT



© Chappaqua Central School District



Adam Pease

@DrAPease

The goal is simple - Feed the fish, 3 times each day over break. Greeley students learning to design, 3d print, program, fabricate, & build a working fish food dispenser for their aquaponics set-up. Failure could be catastrophic (for the fish too)! @arduino #WeAreChappaqua



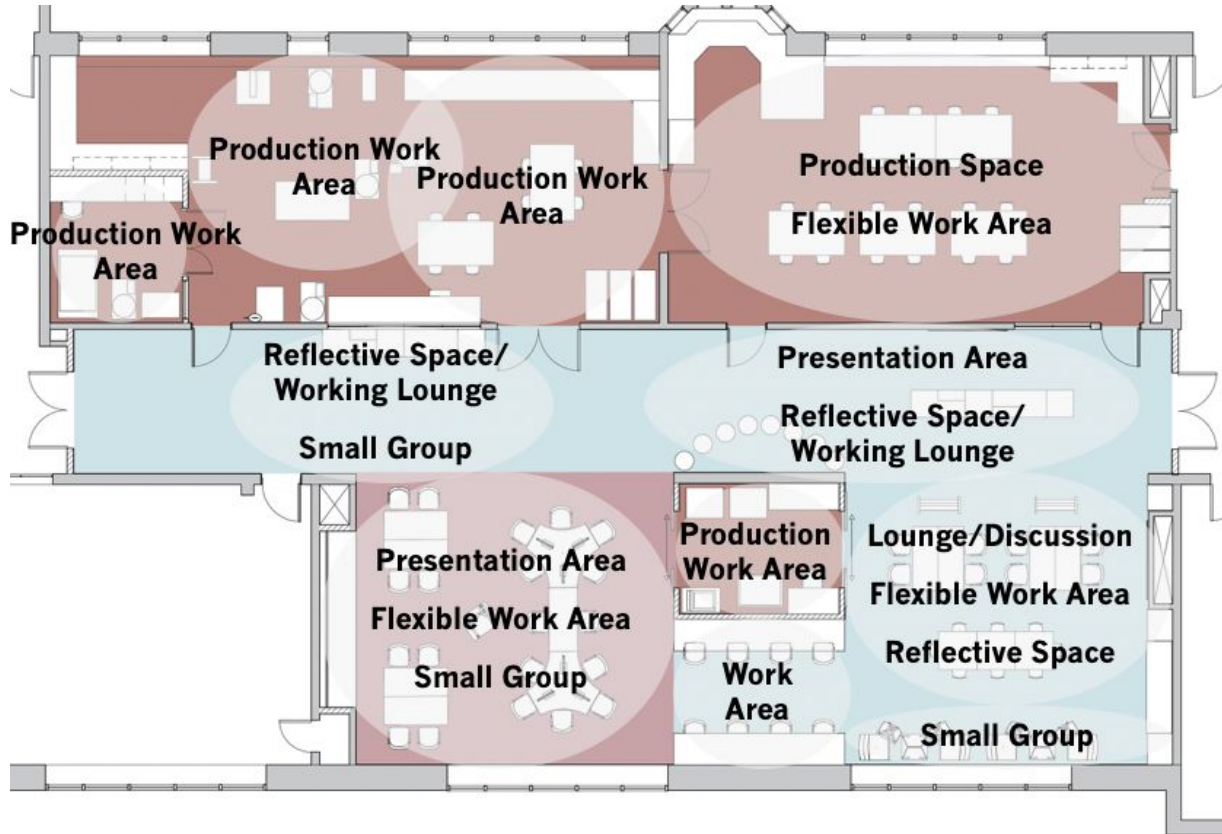
8:24pm · 7 Feb 2019 · Twitter for iPhone

## Digital Learning Goals

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

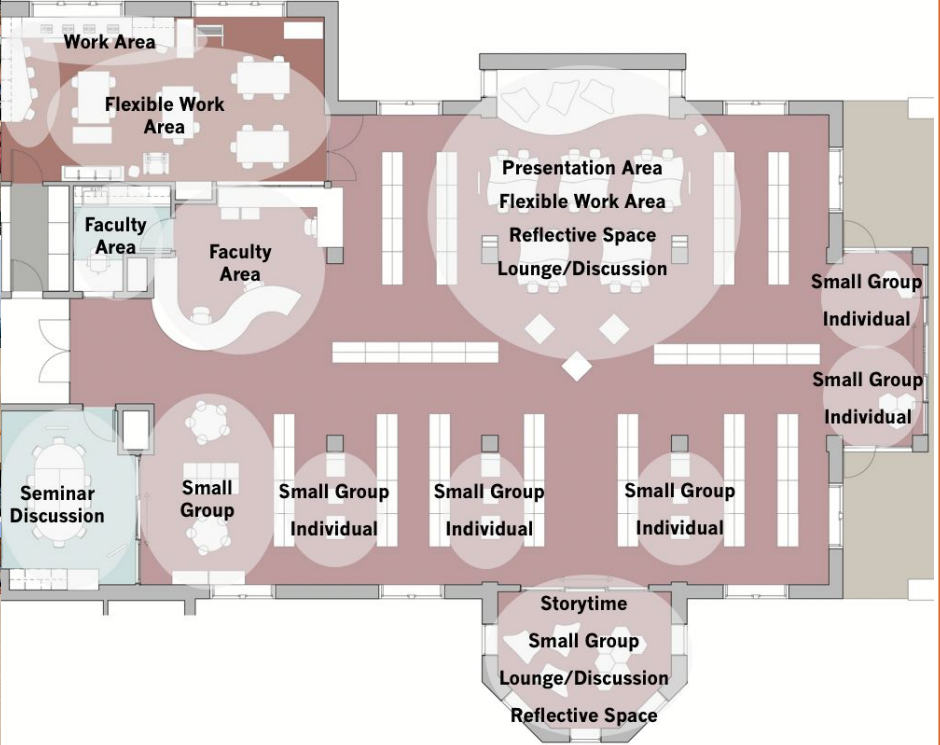


# Active Learning Spaces





## Global Learning Centers



# 1:1 Rollout

## Chappaqua Central School District 1:1 Planning

| Grade | 17-18    | 18-19          | 19-20          | 20-21      |
|-------|----------|----------------|----------------|------------|
| 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 |



# Middle School 1:1

| Grade              | 2018-19    | 2019-20<br>Budgeted<br>Plan | 2019-20<br>Proposal |
|--------------------|------------|-----------------------------|---------------------|
| 5th & 6th<br>Grade | Bak Atlas  | Surface Go                  | Surface Go          |
| 7th & 8th<br>Grade | Pilot BYOD | BYOD                        | Surface Go          |



# Professional Learning





# Professional Learning



**Adam Pease**  
@DrAPease

Following

Grade 3 & 4 ES faculty practices using @gotynker as a way to teach block-coding to students. @chackerman1 @TonySinanis @jculwellblock @Esmoskowitz #WeAreChappaqua



**Josh Culwell-Block** @jculwellblock · Jan 23

Learning how to record our reading with @appleEDU. Using our recordings to help us read more accurately. #WeAreChappaqua #ActiveLearningWithiPads @Esmoskowitz – at Westorchard Elementary School

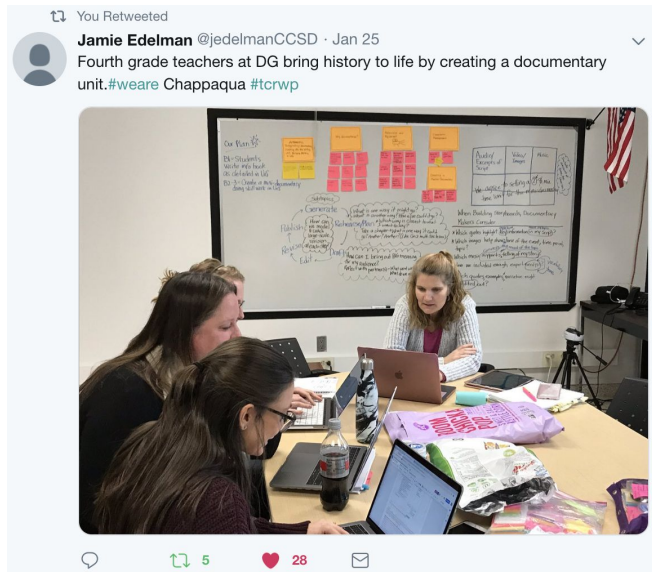


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# Professional Learning



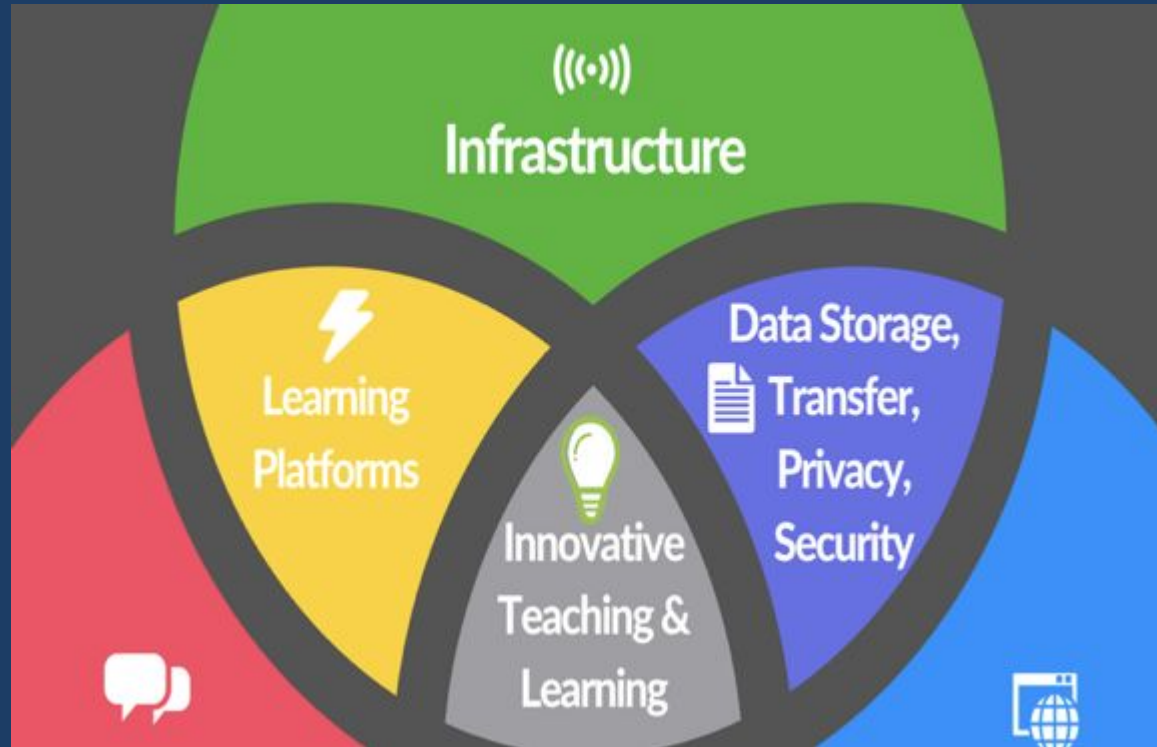
**Ellen Moskowitz**  
@Esmoskowitz

Following

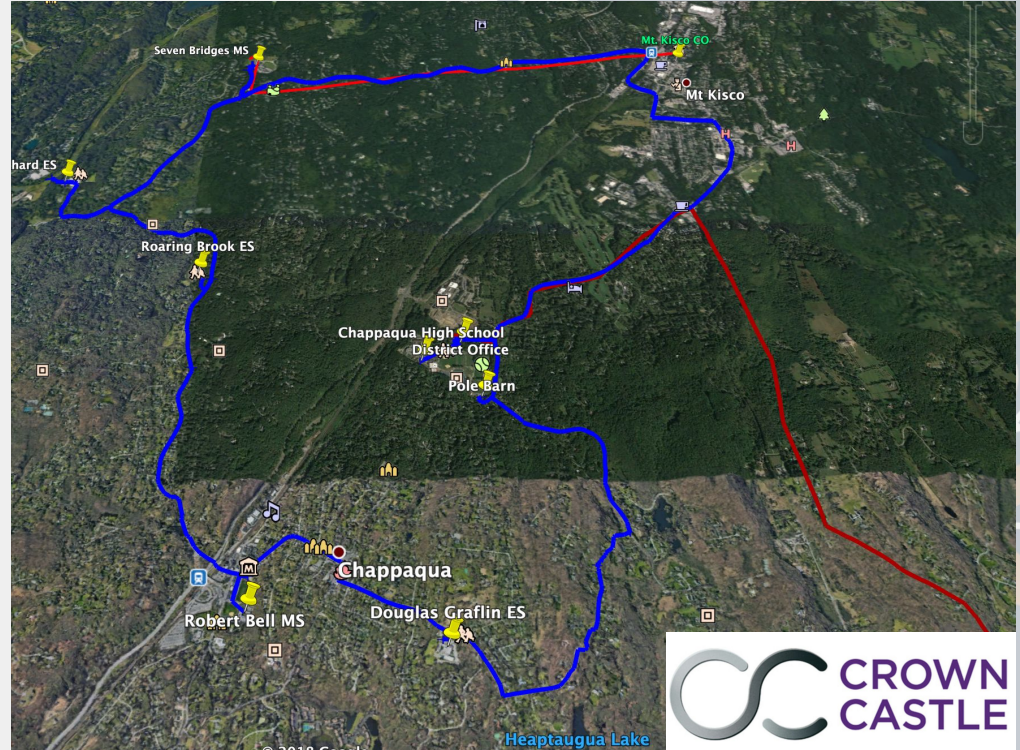
Digital tools strengthen the experience of learning. They allow for Ss to amplify and document their learning in interesting and diverse ways. #stireggio @jculwellblock



# Infrastructure



# Integrated Systems and Network



# Communications



 Powered by Finalsite





# Display & Scheduling Technology





# Technology Inventory

|                           |      |
|---------------------------|------|
| District Servers          | 14   |
| Desktop PCs               | 1110 |
| iMacs                     | 42   |
| PC Laptops                | 1346 |
| iPads                     | 1050 |
| MacBooks                  | 205  |
| SmartBoards / Flat Panels | 220  |
| Printers                  | 430  |

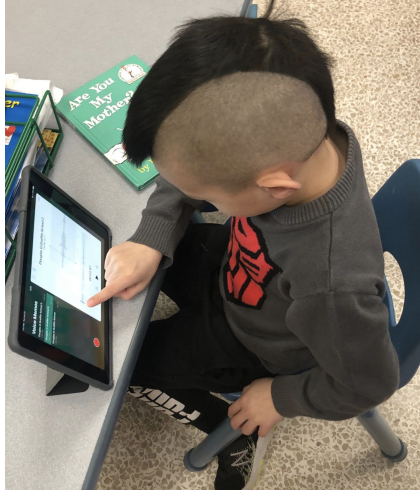


# Hardware Inventory Forecast

| Year    | iPads | MacBooks | PC Laptops | PC Desktops |
|---------|-------|----------|------------|-------------|
| Current | 1050  | 205      | 1346       | 1110        |
| 2019-20 | 1600  | 240      | 1346       | 500         |
| 2020-21 | 1600  | 250      | 1600       | 400         |
| 2021-22 | 1600  | 250      | 1600       | 300         |



# Technology Leases



| Year Begin - Year End         | Amount           |
|-------------------------------|------------------|
| 2017/18 - 2019/20             | \$79,901         |
| 2018/19 - 2020/21             | \$55,665         |
| 2018/19 - 2021/22             | \$159,443        |
| Proposed 2019/20 -<br>2022/23 | <b>\$166,602</b> |
|                               |                  |
| Total Annual Payments         | <b>\$461,611</b> |

# Data



# Data Privacy and Security

KnowBe4.com  
Human error. Conquered.

securlly://

FORTINET®





# Student Data Protection



## EDUCATION LAW 2-D REGULATIONS REQUIREMENTS FOR EDUCATION AGENCIES

### OVERVIEW OF REGULATORY REQUIREMENTS

Education Law 2-d applies to public school districts, charter schools, and BOCES. Below is a high-level overview of the primary categories of requirements.



#### PARENTS' BILL OF RIGHTS

Publish a list of data privacy and security rights.



#### PRIVACY LEADERSHIP

Designate one or more information privacy and security officers.



#### CYBERSECURITY STANDARDS

Comply with state minimum security and privacy standards.



#### COMPLIANT CONTRACTS

Negotiate compliant contracts with third party contractors.
















#### IMPROPER DISCLOSURE PRACTICES

Implement required improper disclosure reporting procedures.



Roadmap and Implementation Timeline  
<http://www.nysed.gov/curriculum-instruction/next-generation-learning-standards-and-assessment-implementation-timeline>

| REQUIREMENT CATEGORY                          |                 | DISTRICT REQUIREMENTS  |   |   |
|---|-----------------|--|---|---|
| RELEVANT EDUCATION LAW 2-D REGULATION PART(S) | 121.2           | <b>PARENTS' BILL RIGHTS</b><br>           | <b>PARENTS' BILL OF RIGHTS PUBLISHED</b><br>educational agencies must publish a parents' bill of rights for data privacy and security on the district's website<br> <b>JUNE</b>  | <b>SUPPLEMENTAL INFORMATION PUBLISHED</b><br>educational agencies must publish information about contracts with third party contractors that receive personally identifiable information<br> <b>DEC</b>        |
|   | 121.7           | <b>PRIVACY LEADERSHIP</b><br>             | <b>DATA PRIVACY OFFICER APPOINTED</b><br>educational agencies must designate one or more employees to be responsible for local Education Law 2-d and data security and privacy leadership<br> <b>JULY</b>                  |   |
|   | 121.4 AND 121.6 | <b>CYBERSECURITY STANDARDS</b><br>        | <b>DATA SECURITY AND PRIVACY POLICY ADOPTED</b><br>educational agencies must establish a data security and privacy policy that complies with the NIST Cybersecurity Framework<br> <b>SEP</b>                               | <b>CYBERSECURITY BASELINE PROFILE DEVELOPED</b><br>educational agencies must develop a NIST Cybersecurity Profile in order to identify and prioritize opportunities for improving cybersecurity<br> <b>DEC</b> |
|   | 121.5 AND 121.8 | <b>COMPLIANT CONTRACTS</b><br>            | <b>SERVICES SECURED VIA COMPLIANT CONTRACTS</b><br>educational agencies must negotiate Ed Law 2-d requirements into contracts with third party contractors that receive personally identifiable information<br> <b>DEC</b> |   |
|   | 121.3 AND 121.9 | <b>IMPROPER DISCLOSURE PRACTICES</b><br> | <b>INVESTIGATION LOG APPROVED</b><br>educational agencies must establish a policy and procedures to support the investigation of improper disclosure complaints and maintain related logs<br> <b>JUNE</b>                 | <b>REPORTING FORM APPROVED</b><br>educational agencies must report improper disclosure occurrences to the NYSED CPO and affected parents, students, and/or educators<br> <b>JUNE</b>                          |

RECOMMENDED DISTRICT REQUIREMENT COMPLETION TIMELINE

RECOMMENDED DISTRICT REQUIREMENT COMPLETION TIMELINE



# Proposed Budget

|                               | 2017-18            |                    | 2018-19            |                     | 2019-20            | Approved 18-19 vs.<br>Proposed 19-20 |               |
|-------------------------------|--------------------|--------------------|--------------------|---------------------|--------------------|--------------------------------------|---------------|
| Computer Assisted Instruction | Approved           | Actual             | Approved           | Year End Projection | Proposed           | Variance \$                          | Variance %    |
| Equipment                     | 233,000            | 346,808            | 243,040            | 243,040             | 253,000            |                                      |               |
| Contract Services             | 1,210,900          | 1,212,657          | 1,273,900          | 1,273,900           | 1,312,117          |                                      |               |
| Travel/Conferences            | 2,500              | 2,450              | 2,500              | 2,500               | 2,500              |                                      |               |
| Technology Training           | 10,000             | 10,000             | 10,000             | 10,000              | 40,000             |                                      |               |
| Supplies                      | 73,000             | 91,452             | 73,000             | 73,000              | 93,000             |                                      |               |
| State Aided Computer Software | 150,960            | 165,080            | 160,000            | 160,000             | 180,000            |                                      |               |
| BOCES                         | 30,000             | 30,000             | 30,000             | 30,000              | 30,000             |                                      |               |
| <b>TOTAL</b>                  | <b>\$1,710,360</b> | <b>\$1,858,447</b> | <b>\$1,792,440</b> | <b>\$1,792,440</b>  | <b>\$1,910,617</b> | <b>\$118,177</b>                     | <b>6.59%</b>  |
| Lease Principal & Interest    | \$412,059          | \$411,960          | <b>\$462,059</b>   | \$461,611           | <b>\$461,611</b>   | <b>-\$448</b>                        | <b>-0.10%</b> |
|                               | <b>\$2,122,419</b> | <b>\$2,270,407</b> | <b>\$2,254,499</b> | <b>\$2,254,051</b>  | <b>\$2,372,228</b> | <b>\$117,729</b>                     | <b>5.22%</b>  |

# Budget Components

