Clarence Central School District

Smart Schools Investment Plan

April 2016

1. Meet the goals of our technology plan for classroom/student learning at an advanced level of technology. (see chart)

| **GOAL 4 – The learning infrastructure of hardware, software and network is accessible, current and equitable throughout the district.** | | | | | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ACTIVITIES/WHAT | WHO/ HOW | WHEN **R = replace with recycled computers**  **N = replace with new computers**  **C = combine existing computers** | | | | | | **DISTRICT BUDGET IMPLEMENTATION YEAR**  **A - Actual P - Potential** | | | | | EXISTING RESOURCES | | EVALUATION |
|  |  | 15-16 | | 16-17 | 17-18 | 18-19 |  | 15-16 | 16-17 | 17-18 | 18-19 |  |  | |  |
| **Teacher Laptop Initiative** |  |  | |  |  |  |  |  |  |  |  |  |  | |  |
| Teacher Laptops – CHS | Central Office | **N** | |  |  | **N** |  | **A** |  |  | **A** |  | Teachers currently are assigned laptop computers which will be recycled into labs and carts for student use. | | The teacher laptop initiative will be successful when every teacher in the District has a laptop computer or other mobile device that is utilized to meet the demands of the Regents Reform Agenda. |
| Teacher Laptops – CMS | Central Office |  | | **N** |  |  |  |  | **A** |  |  |  |
| Teacher Laptops – CC | Central Office |  | |  | **N** |  |  |  |  | **A** |  |  |
| Teacher Laptops – HH | Central Office |  | |  | **N** |  |  |  |  | **A** |  |  |
| Teacher Laptops – LV | Central Office |  | |  | **N** |  |  |  |  | **A** |  |  |
| Teacher Laptops – SH | Central Office |  | |  | **N** |  |  |  | **P** | **A** |  |  |
| **Computer Lab Initiative** |  |  | |  |  |  |  |  |  |  |  |  |  | |  |
| CHS - Shared Science Lab | Central Office |  | | **N** |  |  |  |  | **A** |  |  |  | 30 workstations - HP Elitedesk 800 | |  |
| CHS – 411 Lab (Business) | Central Office |  | |  | **N** |  |  |  |  | **A** |  |  | 24 workstations - HP Elitedesk 800 | |  |
| CHS – 511 Lab (Business) | Central Office |  | |  | **N** |  |  |  |  | **A** |  |  | 24 workstations - HP Elitedesk 800 | |  |
| CHS – 419 - Special Ed Cluster | Central Office |  | |  | **N** |  |  |  |  | **A** |  |  | 10 workstations - HP Elitedesk 800 | |  |
| CHS – 133 Lab (PLTW) | Central Office |  | | **N** |  |  |  |  | **A** |  |  |  | 24 workstations HP 4600 | |  |
| CHS – 135 Lab (PLTW) | Central Office |  | | **N** |  |  |  |  | **A** |  |  |  | 24 workstations HP 4600 | |  |
| CHS – 138 B (PLTW) | Central Office |  | | **N** |  |  |  |  | **A** |  |  |  | B - 24 workstations HP 4600 | |  |
| CHS – 130 Lab (Art Cluster) | Central Office |  | | **N** |  |  |  |  | **A** |  |  |  | 16 iMac workstations | |  |
| CHS – 140 Lab (Art Cluster) | Central Office |  | |  | **N** |  |  |  |  | **A** |  |  | 12 workstations - HP Elitedesk 800 | |  |
| CHS – 132 Lab (Art Cluster) | Central Office |  | | **N** |  |  |  |  | **A** |  |  |  | 3 workstations 780 | |  |
| CHS – 226A (History Cluster) | Central Office |  | | **N** |  |  |  |  | **A** |  |  |  | 8 thin client Virtual Desktops | |  |
| CHS – LAC Lab (14) | Central Office | **N** | |  |  | **N** |  | **A** |  |  | **A** |  | 15 workstations – Dell 780 | |  |
| CMS – 726 Lab (Sign-out) | Central Office |  | |  | **N** |  |  |  |  | **A** |  |  | 27 workstations – HP Elitedesk 800 | |  |
| CMS – 709 Lab | Central Office | **N** | |  |  | **N** |  | **A** |  |  | **A** |  | 30 workstations - HP Elitedesk 800 | |  |
| CMS – 610 Lab (PLTW) | Central Office |  | |  | **N** |  |  |  |  | **A** |  |  | 30 workstations - HP Elitedesk 800 | |  |
| CMS – 606 Lab (PLTW) | Central Office |  | |  | **N** |  |  |  |  | **A** |  |  | 25 workstations - HP Elitedesk 800 | |  |
| CMS – 605 (PLTW) | Central Office |  | |  | **N** |  |  |  |  | **A** |  |  | 17 workstations - HP Elitedesk 800 | |  |
| CC – 335 Lab | Central Office | **R** | |  |  | **N** |  | **A** |  |  | **A** |  | 26 Laptops from MS – Dell D630 | |  |
| LV – 101 Lab | Central Office |  | |  | **N** |  |  |  |  | **A** |  |  | 18 machines from PTO 8 from CO | |  |
| HH – 110 Lab | Central Office | **R** | |  |  | **N** |  | **A** |  |  | **A** |  | 26 Laptops from MS – Dell D630 | |  |
| SH – 110 Lab | Central Office | **R** | |  |  | **N** |  |  | **A** |  | **A** |  | 26 Laptops from MS – Dell D630 | |  |
| **Mobile Device Initiative** |  |  | |  |  |  |  |  |  |  |  |  |  | |  |
| CHS – Science Laptop Cart | Central Office |  | | **N** |  |  |  |  | **A** |  |  |  | Graf/Science 15 Laptops – HP 6470b | | Add 15 more devices |
| CHS – Open Use Laptop Cart #1 | Central Office |  | |  | **N** |  |  |  |  | **A** |  |  | 30 HP 640 G1 – UL | |  |
| CHS – Open Use Laptop Cart #2 | Central Office |  | | **N** |  |  |  |  | **A** |  |  |  | 30 HP 6470b – Sci | |  |
| CHS – Open Use Laptop Cart #3 | Central Office |  | |  | **N** |  |  |  |  | **A** |  |  | 30 HP 640 G1 – LL | |  |
| CHS – Open Use Laptop Cart #4 | Central Office |  | | **N** |  |  |  |  | **A** |  |  |  | 30 HP 640 G1 – LL | |  |
| CHS – Open Use Laptop Cart #5 | Central Office |  | | **N** |  |  |  |  | **A** |  |  |  |  | |  |
| CHS – Open Use Laptop Cart #6 | Central Office |  | | **N** |  |  |  |  | **A** |  |  |  |  | |  |
| CHS – Open Use Laptop Cart #7 | Central Office |  | |  | **N** |  |  |  |  | **A** |  |  |  | |  |
| CHS – Open Use Laptop Cart #8 | Central Office |  | |  | **N** |  |  |  |  | **A** |  |  |  | |  |
| CHS – Open Use Laptop Cart #9 | Central Office |  | |  |  | **N** |  |  |  |  | **A** |  |  | |  |
| CHS – Open Use Laptop Cart #10 | Central Office |  | |  |  | **N** |  |  |  |  | **A** |  |  | |  |
| CHS – OpenUse Chromebook Cart #1 | Central Office |  | |  |  | **N** |  |  |  |  | **A** |  | 30 Acer C720 | |  |
| CHS – OpenUse Chromebook Cart #2 | Central Office | **N** | |  |  |  |  |  |  |  |  |  | 30 Acer C720 | |  |
| CHS – OpenUse Chromebook Cart #3 | Central Office |  | | **N** |  |  |  |  | **A** |  |  |  |  | |  |
| CHS – OpenUse Chromebook Cart #4 | Central Office |  | | **N** |  |  |  |  | **A** |  |  |  |  | |  |
| CHS – OpenUse Chromebook Cart #5 | Central Office |  | | **N** |  |  |  |  | **A** |  |  |  |  | |  |
| CHS – OpenUse Chromebook Cart #6 | Central Office |  | |  | **N** |  |  |  |  | **A** |  |  |  | |  |
| CHS – OpenUse Chromebook Cart #7 | Central Office |  | |  | **N** |  |  |  |  | **A** |  |  |  | |  |
| CHS – OpenUse Chromebook Cart #8 | Central Office |  | |  | **N** |  |  |  |  | **A** |  |  |  | |  |
| CHS – OpenUse Chromebook Cart #9 | Central Office |  | |  |  | **N** |  |  |  |  | **A** |  |  | |  |
| CHS – OpenUse Chromebook Cart #10 | Central Office |  | |  |  | **N** |  |  |  |  | **A** |  |  | |  |
| CHS – OpenUse Chromebook Cart #11 | Central Office |  | |  |  | **N** |  |  |  |  | **A** |  |  | |  |
| CHS – Open Use iPad Cart #1 | Central Office |  | | **N** |  |  |  |  | **A** |  |  |  |  | |  |
| CHS – Open Use iPad Cart #2 | Central Office |  | | **N** |  |  |  |  | **A** |  |  |  |  | |  |
| CHS – Open Use iPad Cart #3 | Central Office |  | |  | **N** |  |  |  |  | **A** |  |  |  | |  |
| CHS – Open Use iPad Cart #4 | Central Office |  | |  | **N** |  |  |  |  | **A** |  |  |  | |  |
| CHS – Open Use iPad Cart #5 | Central Office |  | |  |  | **N** |  |  |  |  | **A** |  |  | |  |
| CHS – Open Use iPad Cart #6 | Central Office |  | |  |  | **N** |  |  |  |  | **A** |  |  | |  |
| CMS – Open Use Laptop Cart #1 | Central Office |  | | **N** |  |  |  |  | **A** |  |  |  | 30 Laptops – HP 6470b | |  |
| CMS – Open Use Laptop Cart #2 | Central Office |  | | **N** |  |  |  |  | **A** |  |  |  | 30 Laptops – HP 6470b | |  |
| CMS – Open Use Laptop Cart #3 | Central Office |  | | **N** |  |  |  |  | **A** |  |  |  | 30 Laptops – HP 6470b | |  |
| CMS – Open Use Laptop Cart #4 | Central Office |  | | **N** |  |  |  |  | **A** |  |  |  |  | |  |
| CMS – Open Use Laptop Cart #5 | Central Office |  | | **N** |  |  |  |  | **A** |  |  |  |  | |  |
| CMS – Open Use Laptop Cart #6 | Central Office |  | |  | **N** |  |  |  |  | **A** |  |  |  | |  |
| CMS – Open Use Laptop Cart #7 | Central Office |  | |  | **N** |  |  |  |  | **A** |  |  |  | |  |
| CMS – Open Use Laptop Cart #8 | Central Office |  | |  |  | **N** |  |  |  |  | **A** |  |  | |  |
| CMS – Open Use Laptop Cart #9 | Central Office |  | |  |  | **N** |  |  |  |  | **A** |  |  | |  |
| CMS – OpenUse Chromebook Cart #1 | Central Office | **N** | |  |  |  |  | **A** |  |  |  |  | 30 HP-14 | |  |
| CMS – OpenUse Chromebook Cart #2 | Central Office | **N** | |  |  |  |  | **A** |  |  |  |  | 30 HP-14 | |  |
| CMS – OpenUse Chromebook Cart #3 | Central Office | **N** | |  |  |  |  | **A** |  |  |  |  | 28 HP-14 | |  |
| CMS – OpenUse Chromebook Cart #4 | Central Office |  | | **N** |  |  |  |  | **A** |  |  |  |  | |  |
| CMS – OpenUse Chromebook Cart #5 | Central Office |  | | **N** |  |  |  |  | **A** |  |  |  |  | |  |
| CMS – OpenUse Chromebook Cart #6 | Central Office |  | |  | **N** |  |  |  |  | **A** |  |  |  | |  |
| CMS – OpenUse Chromebook Cart #7 | Central Office |  | |  | **N** |  |  |  |  | **A** |  |  |  | |  |
| CMS – OpenUse Chromebook Cart #8 | Central Office |  | |  | **N** |  |  |  |  | **A** |  |  |  | |  |
| CMS – OpenUse Chromebook Cart #9 | Central Office |  | |  |  | **N** |  |  |  |  | **A** |  |  | |  |
| CMS – OpenUse Chromebook Cart #10 | Central Office |  | |  |  | **N** |  |  |  |  | **A** |  |  | |  |
| CMS – OpenUse Chromebook Cart #11 | Central Office |  | |  |  | **N** |  |  |  |  | **A** |  |  | |  |
| CMS – OpenUse Chromebook Cart #12 | Central Office |  | | **N** |  |  |  |  | **A** |  |  |  |  | |  |
| CMS – Open Use iPad Cart #1 | Central Office |  | |  |  | **N** |  |  |  |  | **A** |  | 31 iPad 2 WiFi | |  |
| CMS – Open Use iPad Cart #2 | Central Office |  | | **N** |  |  |  |  | **A** |  |  |  |  | |  |
| CMS – Open Use iPad Cart #3 | Central Office |  | | **N** |  |  |  |  | **A** |  |  |  |  | |  |
| CMS – Open Use iPad Cart #4 | Central Office |  | |  | **N** |  |  |  |  | **A** |  |  |  | |  |
| CMS – Open Use iPad Cart #5 | Central Office |  | |  | **N** |  |  |  |  | **A** |  |  |  | |  |
| CMS – Open Use iPad Cart #6 | Central Office |  | |  |  | **N** |  |  |  |  | **A** |  |  | |  |
| CMS – Open Use iPad Cart #7 | Central Office |  | |  |  | **N** |  |  |  |  | **A** |  |  | |  |
| CC – Open Use Laptop Cart #1 | Central Office |  | |  | **N** |  |  |  |  | **A** |  |  | 27 – HP 640 G1 - Rm326 | |  |
| CC – Open Use Laptop Cart #2 | Central Office |  | | **N** |  |  |  |  | **A** |  |  |  | 27 – HP 640 G1 | |  |
| CC – Open Use Chromebook Cart #1 | Central Office |  | | **N** |  |  |  |  | **A** |  |  |  |  | |  |
| CC – Open Use Chromebook Cart #2 | Central Office |  | | **N** |  |  |  |  | **A** |  |  |  |  | |  |
| CC – Open Use Chromebook Cart #3 | Central Office |  | |  | **N** |  |  |  |  | **A** |  |  |  | |  |
| CC – Open Use Chromebook Cart #4 | Central Office |  | |  | **N** |  |  |  |  | **A** |  |  |  | |  |
| CC – Open Use Chromebook Cart #5 | Central Office |  | |  |  | **N** |  |  |  |  | **A** |  |  | |  |
| CC – Open Use Chromebook Cart #6 | Central Office |  | |  |  | **N** |  |  |  |  | **A** |  |  | |  |
| CC – Open Use iPad Cart #1 | Central Office |  | |  | **N** |  |  |  |  | **A** |  |  | 30 iPad 2 WiFi | |  |
| CC – Open Use iPad Cart #2 | Central Office |  | | **N** |  |  |  |  | **A** |  |  |  |  | |  |
| CC – Open Use iPad Cart #3 | Central Office |  | |  | **N** |  |  |  |  | **A** |  |  |  | |  |
| CC – Open Use iPad Cart #4 | Central Office |  | |  |  | **N** |  |  |  |  | **A** |  |  | |  |
| LV – Open Use Laptop Cart #1 | Central Office |  | |  | **N** |  |  |  |  | **A** |  |  | 27– HP 640 G1 – Rm128 | |  |
| LV – Open Use Chromebook Cart #1 | Central Office |  | | **N** |  |  |  |  | **A** |  |  |  |  | |  |
| LV – Open Use Chromebook Cart #2 | Central Office |  | | **N** |  |  |  |  | **A** |  |  |  |  | |  |
| LV – Open Use Chromebook Cart #3 | Central Office |  | |  | **N** |  |  |  |  | **A** |  |  |  | |  |
| LV – Open Use Chromebook Cart #4 | Central Office |  | |  | **N** |  |  |  |  | **A** |  |  |  | |  |
| LV – Open Use Chromebook Cart #5 | Central Office |  | |  |  | **N** |  |  |  |  | **A** |  |  | |  |
| LV – Open Use Chromebook Cart #6 | Central Office |  | |  |  | **N** |  |  |  |  | **A** |  |  | |  |
| LV – Open Use iPad Cart #1 | Central Office |  | | **N** |  |  |  |  | **A** |  |  |  |  | |  |
| LV – Open Use iPad Cart #2 | Central Office |  | |  | **N** |  |  |  |  | **A** |  |  |  | |  |
| LV – Open Use iPad Cart #3 | Central Office |  | |  |  | **N** |  |  |  |  | **A** |  |  | |  |
| HH - Open Use Laptop Cart #1 | Central Office |  | |  | **N** |  |  |  |  | **A** |  |  | 27– HP 640 G1 – Rm210 | |  |
| HH - Open Use Laptop Cart #2 | Central Office |  | | **N** |  |  |  |  | **A** |  |  |  | 27– HP 6470b – Rm110 | |  |
| HH – Open Use Chromebook Cart #1 | Central Office |  | | **N** |  |  |  |  | **A** |  |  |  |  | |  |
| HH – Open Use Chromebook Cart #2 | Central Office |  | | **N** |  |  |  |  | **A** |  |  |  |  | |  |
| HH – Open Use Chromebook Cart #3 | Central Office |  | |  | **N** |  |  |  |  | **A** |  |  |  | |  |
| HH – Open Use Chromebook Cart #4 | Central Office |  | |  | **N** |  |  |  |  | **A** |  |  |  | |  |
| HH – Open Use Chromebook Cart #5 | Central Office |  | |  |  | **N** |  |  |  |  | **A** |  |  | |  |
| HH – Open Use Chromebook Cart #6 | Central Office |  | |  |  | **N** |  |  |  |  | **A** |  |  | |  |
| HH – Open Use iPad Cart #1 | Central Office |  | | **N** |  |  |  |  | **A** |  |  |  |  | |  |
| HH – Open Use iPad Cart #2 | Central Office |  | |  | **N** |  |  |  |  | **A** |  |  |  | |  |
| HH – Open Use iPad Cart #3 | Central Office |  | |  |  | **N** |  |  |  |  | **A** |  |  | |  |
| SH - Open Use Laptop Cart #1 | Central Office |  | |  | **N** |  |  |  |  | **A** |  |  | 27– HP 640 G1 – Rm209 | |  |
| SH - Open Use Laptop Cart #2 | Central Office |  | | **N** |  |  |  |  | **A** |  |  |  | 27– HP 6470b – Rm110 | |  |
| SH – Open Use Chromebook Cart #1 | Central Office |  | | **N** |  |  |  |  | **A** |  |  |  |  | |  |
| SH – Open Use Chromebook Cart #2 | Central Office |  | | **N** |  |  |  |  | **A** |  |  |  |  | |  |
| SH – Open Use Chromebook Cart #3 | Central Office |  | |  | **N** |  |  |  |  | **A** |  |  |  | |  |
| SH – Open Use Chromebook Cart #4 | Central Office |  | |  | **N** |  |  |  |  | **A** |  |  |  | |  |
| SH – Open Use Chromebook Cart #5 | Central Office |  | |  |  | **N** |  |  |  |  | **A** |  |  | |  |
| SH – Open Use Chromebook Cart #6 | Central Office |  | |  |  | **N** |  |  |  |  | **A** |  |  | |  |
| SH – Open Use iPad Cart #1 | Central Office |  | | **N** |  |  |  |  | **A** |  |  |  |  | |  |
| SH – Open Use iPad Cart #2 | Central Office |  | |  | **N** |  |  |  |  | **A** |  |  |  | |  |
| SH – Open Use iPad Cart #3 | Central Office |  | |  |  | **N** |  |  |  |  | **A** |  |  | |  |
| **Elementary Classroom Clusters** |  |  | |  |  |  |  |  |  |  |  |  |  | |  |
| CC – Classroom Clusters | Central Office | **R** | |  | **N** |  |  |  |  | **A** |  |  | Currently, each elementary classroom has at least 3 computing stations in each core classroom space. | | Additional machines will be installed to increase counts in core classrooms. The Curriculum Office will monitor elementary classroom cluster use as it applies to technology plan goal #1 and #2. |
| HH – Classroom Clusters | Central Office | **R** | |  | **N** |  |  |  |  | **A** |  |  |
| LV – Classroom Clusters | Central Office | **R** | |  | **N** |  |  |  |  | **A** |  |  |
| SH – Classroom Clusters | Central Office | **R** | |  | **N** |  |  |  |  | **A** |  |  |
| **Library Lab & Cluster Initiative** |  |  | |  |  |  |  |  |  |  |  |  |  | |  |
| CHS – Upper Library | Central Office |  | |  | **N** |  |  |  |  | **A** |  |  | 37 workstations - HP Elitedesk 800 | | The library lab initiative will be monitored by the District Technology Committee. Current library resources are inadequate for building needs.  The elementary libraries need full computer labs.  The middle and high school libraries need full computer labs plus laptops computers or mobile devices that can be signed out for use in the library. |
| CMS – Library Lab | Central Office |  | |  | **N** |  |  |  |  | **A** |  |  | 17 workstations - HP Elitedesk 800 | |
| CHS – Library Laptops | Central Office |  | |  | **N** |  |  |  |  | **A** |  |  | 24 Laptops – HP 6470b | |
| CC – Library Lab | Central Office |  | |  | **N** |  |  |  |  | **A** |  |  | 7 workstations - HP Elitedesk 800 | |
| HH – Library Lab | Central Office |  | |  | **N** |  |  |  |  | **A** |  |  | 14 workstations - HP Elitedesk 800 | |
| LV – Library Lab | Central Office |  | |  | **N** |  |  |  |  | **A** |  |  | 12 workstations - HP Elitedesk 800 | |
| SH – Library Lab | Central Office |  | |  | **N** |  |  |  |  | **A** |  |  | 16 workstations - HP Elitedesk 800 | |
| **Interactive Whiteboard Initiative** |  |  | |  |  |  |  |  |  |  |  |  |  | |  |
| CHS Installed Base - (42) | Central Office |  | | **N** | **N** | **N** |  |  | **A** | **A** | **A** |  | The goal is to have an interactive whiteboard in every elementary classroom space | | The interactive whiteboard initiative will be monitored by the District Technology Committee. |
| CMS Installed Base - (54) | Central Office |  | | **N** | **N** | **N** |  |  | **A** | **A** | **A** |  |
| CC Installed Base - (22) | Central Office |  | | **N** | **N** | **N** |  |  | **A** | **A** | **A** |  |
| HH Installed Base - (30) | Central Office |  | | **N** | **N** | **N** |  |  | **A** | **A** | **A** |  |
| LV Installed Base - (20) | Central Office |  | | **N** | **N** | **N** |  |  | **A** | **A** | **A** |  |
| SH Installed Base - (35) | Central Office |  | | **N** | **N** | **N** |  |  | **A** | **A** | **A** |  |
| **LCD Projector Initiative** |  |  | |  |  |  |  |  |  |  |  |  |  | |  |
| CHS Installed Base  (79) | Central Office |  | | **N** | **N** | **N** |  |  | **A** | **A** | **A** |  | The goal is to install an LCD projector in every classroom where an interactive whiteboard is not necessary.  The installed base of projectors is displayed parenthetically in the far left column | | The LCD projector initiative will be monitored by the District Technology Committee. |
| CMS Installed Base  (86) | Central Office |  | | **N** | **N** | **N** |  |  | **A** | **A** | **A** |  |
| CC Installed Base  (31) | Central Office |  | | **N** | **N** | **N** |  |  | **A** | **A** | **A** |  |
| HH Installed Base  (36) | Central Office |  | | **N** | **N** | **N** |  |  | **A** | **A** | **A** |  |
| LV Installed Base  (33) | Central Office |  | | **N** | **N** | **N** |  |  | **A** | **A** | **A** |  |
| SH Installed Base  (39) | Central Office |  | | **N** | **N** | **N** |  |  | **A** | **A** | **A** |  |
| Full Wireless Districtwide |  |  | |  |  |  |  |  |  |  |  |  |
| * CHS | Central Office | **O** | | **I** | **O** | **O** |  | **A** | **A** | **A** | **A** |  | Wireless coverage across the district is currently wireless N technology with 1 AP to every 2 classrooms. The current Aruba wireless is type N and can be recycled for use in the elementary buildings | | The goal is reliable wireless in every school. This goal will not be complete until CHS and CMS have full wireless ac access in every classroom and Elementaries have full wireless N access in every classroom.   * We estimate a cost of $500,000 to complete the wireless project, including access points, Licensing, Software & cabling |
| * CMS | Central Office | **O** | | **O** | **I** | **O** |  | **A** | **A** | **A** | **A** |  |
| * CC | Central Office | **O** | | **O** | **I** | **O** |  | **A** | **A** | **A** | **A** |  |
| * HH | Central Office | **O** | | **I** | **O** | **O** |  | **A** | **A** | **A** | **A** |  |
| * LV | Central Office | **O** | | **O** | **I** | **O** |  | **A** | **A** | **A** | **A** |  |
| * SH | Central Office | **O** | | **I** | **O** | **O** |  | **A** | **A** | **A** | **A** |  |
|  |  |  | |  |  |  |  |  |  |  |  |  |
| **Base Software Licensing** |  |  |  | |  |  |  |  |  |  |  |  |  | | |
| Microsoft Licensing | $32,700 | O | O | | O | O |  | A | A | A | A |  | Annual fee for licensing | | |
| PLTW | $3,750 | O | O | | O | O |  | A | A | A | A |  | Multisim, Ultiboard, CIM, Autodesk | | |
| Logisoft | $1,600 | O | O | | O | O |  | A | A | A | A |  | Website maintenance | | |
| ActiveInspire | $250 | O | O | | O | O |  | A | A | A | A |  |  | | |
| **Courseware – course specific, skill specific & intervention software** |  |  |  | |  |  |  |  |  |  |  |  |  | | |
| Microsoft Office User Specialist | $1000 | **O** | **O** | | **O** | **O** |  | **A** | **A** | **A** | **A** |  |  | | |
| Accounting Software | $750 | **O** | **O** | | **O** | **O** |  | **A** | **A** | **A** | **A** |  |  | | |
| Naviance (Guidance) | $5,500 | **O** | **O** | | **O** | **O** |  | **A** | **A** | **A** | **A** |  |  | | |
| Kuta Software | $1,500 | **O** | **O** | | **O** | **O** |  | **A** | **A** | **A** | **A** |  | License | | |
| National Student Clearing House | $500 | **O** | **O** | | **O** | **O** |  | **A** | **A** | **A** | **A** |  | StudentTracker Software | | |
| Scholastic | $3000 | **O** | **O** | | **O** | **O** |  | **A** | **A** | **A** | **A** |  | Read 180 | | |
| Scholastic | **O** | **O** | | **O** | **O** |  | **A** | **A** | **A** | **A** |  | FastMath | | |
| Scholastic | **O** | **O** | | **O** | **O** |  | **A** | **A** | **A** | **A** |  | FractionNation | | |
| Scholastic | **O** | **O** | | **O** | **O** |  | **A** | **A** | **A** | **A** |  | SRI | | |
| Scholastic | **O** | **O** | | **O** | **O** |  | **A** | **A** | **A** | **A** |  | System 44 | | |
| Scholastic | **O** | **O** | | **O** | **O** |  | **A** | **A** | **A** | **A** |  | Next Gen | | |
| Lexia | $1,000 | **O** | **O** | | **O** | **O** |  | **A** | **A** | **A** | **A** |  | Subscription | | |
| Renaissance Learning | $9,300 | **O** | **O** | | **O** | **O** |  | **A** | **A** | **A** | **A** |  | STAR Early Literacy | | |
| APEX Learning | $1,000 | **O** | **O** | | **O** | **O** |  | **A** | **A** | **A** | **A** |  | Online Credit Recovery | | |
| Edoctrina | $25,100 | **O** | **O** | | **O** | **O** |  | **A** | **A** | **A** | **A** |  | Assessment design & scoring | | |
| My Learning Plan | $14,000 | O | O | | O | O |  | A | A | A | A |  | Prof. Dev. Tracking | | |
| Learning A-Z | $12,100 | O | O | | O | O |  | A | A | A | A |  | Reading A-Z, RAZ KIDS, VOCAB A-Z license renewal | | |
| Castle Learning | $9,436 | **O** | **O** | | **O** | **O** |  | **A** | **A** | **A** | **A** |  | Online Resource | | |
| QUIA | $624 | **O** | **O** | | **O** | **O** |  | **A** | **A** | **A** | **A** |  | Educational Subscription to QUIA Web, | | |
| **Webware – internet specific software & online databases** |  |  |  | |  |  |  |  |  |  |  |  |  | | |
| iParadigms Turnitin | $6,105 | **O** | **O** | | **O** | **O** |  | **A** | **A** | **A** | **A** |  | Online Grading Resource | | |
| Noodle Tools | $635 | **O** | **O** | | **O** | **O** |  | **A** | **A** | **A** | **A** |  | License fee for NoodleTools | | |
| Ebsco Publishing | $14,000 | O | O | | O | O |  | **A** | **A** | **A** | **A** |  | Magazine Summaries | | |
| Proquest | $1,095 | O | O | | O | O |  | **A** | **A** | **A** | **A** |  | Culturegrams | | |
| Proquest | $495 | O | O | | O | O |  | **A** | **A** | **A** | **A** |  | SIRS Decades | | |
| Proquest | $976 | O | O | | O | O |  | **A** | **A** | **A** | **A** |  | SIRS Researcher | | |
| Proquest | $2,400 | O | O | | O | O |  | **A** | **A** | **A** | **A** |  | Historical News NY Times | | |
| Fact on File | $3,650 | O | O | | O | O |  | **A** | **A** | **A** | **A** |  | Library Resource Renewal | | |
| World Book | $2,000 | **O** | **O** | | **O** | **O** |  | **A** | **A** | **A** | **A** |  | Online Library Resource Renewal | | |
| Capstone | $3,383 | **O** | **O** | | **O** | **O** |  | **A** | **A** | **A** | **A** |  | Online Library Resource CHS | | |
| Library Services Level 1 | $29,000 | **O** | **O** | | **O** | **O** |  | **A** | **A** | **A** | **A** |  | BOCES COSER | | |
| Instructional Media Resources | $21,850 | **O** | **O** | | **O** | **O** |  | **A** | **A** | **A** | **A** |  | BOCES COSER | | |
| Discovery Learning | $8,600 | **O** | **O** | | **O** | **O** |  | **A** | **A** | **A** | **A** |  | BOCES COSER | | |
| * **Server Initiative** |  |  |  | |  |  |  |  |  |  |  |  |  |  | |
| * ESX Servers (4) | Central Office | **O** | **I** | | **O** | **O** |  | **A** | **A** | **A** | **A** |  | HP DL580 Server | Evaluation of the server initiative will be part of the annual review process of the District Technology Committee.  A purchasing procedure is attached as an appendix to this document. All technology purchasing will be centralized and evaluated against the goals and action steps in the technology plan. | |
| * SAN (21 TB = 5 TB) | Central Office | **O** | **O** | | **O** | **O** |  | **A** | **A** | **A** | **A** |  | HP (LeftHand) SAN 21Tb with actual 5 TB storage |
| * Virtualize all servers and create cloud based computing backbone for district. | Central Office | **O** | **O** | | **O** | **O** |  | **A** | **A** | **A** | **A** |  | ESX and Hyper V Servers |
| * Create consistency in purchasing equipment throughout the District. | Central Office | **O** | **O** | | **O** | **O** |  | **A** | **A** | **A** | **A** |  | Equipment purchasing procedures are assessed annually for adequacy |
| Digital Phone System and VOIP | Central Office | **D** | **D** | | **I** | **O** |  |  | **P** | **A** | **A** |  | The digital phone system is three- quarters complete and will use some of the same infrastructure that we are adding for wireless. |
| **Cabling & Wiring Initiative** |  |  |  | |  |  |  |  |  |  |  |  |  | The costs of NOT completing the phone project make this project a must. (costs: T1 lines for Nortel system, All repairs, personnel time in buildings and grounds) We have already established that management of the phone system out of the tech office is efficient and cost effective. | |
| All network cabling needs to be color coded and labeled. This will increase the District’s ability to troubleshoot and more easily manage adds, moves, and changes. | Central Office | **O** | **O** | | **O** | **O** |  | **A** | **A** | **A** | **A** |  | Cabling is not labeled | All new cable that is installed will be properly labeled on on both ends of the cable. | |
| * Older cabling should be replaced by Cat6 at a minimum | Central Office | **O** | **I** | | **O** | **O** |  | **P** | **A** | **A** | **A** |  | Fiber connection between CHS server room and Core is currently rated at 4.7 Gb.  Current Time Warner Line – 1 Pair without redundant connection  See appendix – Advance 2000 audit recommendations | The Cabling and wiring initiative will be part of the annual review process of the District Technology Committee. | |
| * All Dual-Drops across the District should be eliminated. This technology is causing network issues and bottlenecks. | Central Office | **O** | **O** | | **O** | **O** |  | **A** | **A** | **A** | **A** |  |
| * The fiber optic connection between the HS Server Room and the Core should be replaced with the appropriate specification for the distance being traversed at 10Gb. | Central Office | **D** | **I** | | **O** | **O** |  | **P** | **A** | **A** | **A** |  |
| * Properly configure packet shaping or QoS (Quality of Service) for critical network traffic. | Central Office | **D** | **D** | | **I** | **O** |  |  | **P** | **A** |  |  |
| * Improve capacity of infrastructure to support growth of the network. | Central Office | **O** | **O** | | **O** | **O** |  | **A** | **A** | **A** | **A** |  |
| * Create redundancy between the core infrastructure at CHS and CMS that is currently supported only by a single fiber pair and 1 switch interface. | Central Office | **I** | **O** | | **O** | **O** |  | **A** | **A** | **A** | **A** |  |

1. All devices purchased will meet computer based testing recommended specifications. (These are the highest specifications from New York State.)
2. Our annual expenditures for technology average approximately $200,000. This will help insure sustainability of the devices purchased from Smart Schools Funds.
3. As with other New York State funded programs, the Smart Schools Funds allow non-public schools in our district to be part of the program on a purchase/loan basis. We must allow Nativity the capability of utilizing our Smart Schools devices. We will require a comprehensive list of their needs by June 30, 2016. Their allocation is $43,250.
4. Our three (3) year purchase schedule, which will be updated annually, is as follows:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 2016-2017 | | | | | | |
|  | Chromebook | Laptop | Cart | Desktop | iPad | iPad Cart |
| Elementary | 240 | 60 | 8 | 0 | 120 | 4 |
| Middle School | 90 | 250 | 5 | 0 | 60 | 2 |
| High School | 90 | 150 | 8 | 120 | 60 | 2 |
|  | 420 | 460 | 21 | 120 | 240 | 8 |
|  |  |  |  |  |  |  |
|  | Total Devices\* | 1269 | |  |  |  |
|  | Total Cost | $ 866,600.00 | |  |  |  |
|  | \*Total Devices includes Smart School Bond Act devices and Tech Plan Life Cycle refresh devices | | | | | |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 2017-2018 | | | | | | |
|  | Chromebook | Laptop | Cart | Desktop | iPad | iPad Cart |
| Elementary | 240 | 260 | 8 | 0 | 150 | 4 |
| Middle School | 90 | 60 | 5 | 120 | 60 | 2 |
| High School | 90 | 120 | 5 | 75 | 60 | 2 |
|  | 420 | 440 | 18 | 195 | 270 | 8 |
|  |  |  |  |  |  |  |
|  | Total Devices\* | 1351 | |  |  |  |
|  | Total Cost | $ 882,550.00 | |  |  |  |
|  | \*Total Devices includes Smart School Bond Act devices and Tech Plan Life Cycle refresh devices | | | | | |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 2018-2019 | | | | | | |
|  | Chromebook | Laptop | Cart | Desktop | iPad | iPad Cart |
| Elementary | 240 | 90 | 8 | 0 | 120 | 4 |
| Middle School | 90 | 60 | 5 | 30 | 90 | 2 |
| High School | 120 | 165 | 5 | 15 | 60 | 2 |
|  | 450 | 315 | 18 | 45 | 270 | 8 |
|  |  |  |  |  |  |  |
|  | Total Devices\* | 1106 | |  |  |  |
|  | Total Cost | $ 692,425.00 | |  |  |  |
|  | \*Total Devices includes Smart School Bond Act devices and Tech Plan Life Cycle refresh devices | | | | | |

|  |  |
| --- | --- |
| **Equipment** | **Unit Cost** |
| iPad | $ 700.00 |
| iPad Cart | $3,500.00 |
| Chromebook | $ 350.00 |
| Cart | $2,100.00 |
| Laptop | $ 825.00 |
| Desktop | $ 450.00 |
| iMac | $2,000.00 |