Mineola ISD Technology Plan

April 15, 2019

The long range technology plan for Mineola ISD is used to implement a plan for long term sustainability. There are several basic level determinations completed over the last two years that impact long term decisions and sustainability.

Chromebooks:

- Chromebooks on every level should be issued to the same student for use, for the time they are on the campus year to year
    - High School students take their Chromebooks home and are assessed a $30 usage fee which goes toward repairs. High School students us the same Chromebook for the duration of their High School Years
    - The same Chromebooks are checked in and out to the same student daily on the Middle School and Elementary campuses. Consider a usage fee for Middle School and Elementary School.
- Each incoming third grader, sixth grader and ninth grader will be issued a new Chromebook. Extra Chromebooks will be added to district replacement pool
- Additional Chromebooks will be reissued by the district to campuses
- Older Chromebooks will be reconditioned and reimaged and assigned to Primary
- Each student and parent will sign an Acceptable Use Policy

Staff computers:

- Determination to issue Apple MacAirs laptops to each professional staff
- Determination to issue desktops to each staff member

Classroom Equipment

- Projectors: Each class will be provided a projector
- Document cameras: Each teacher can opt for a document camera as needed

Internet and Infrastructure:

- Internet Bandwidth will be 2gs for the next three years
- Servers and SANS will be updated on a 7-year rotation
- Servers, switches and routers will be updated as ERATE allows.
- All future cables pulled will be CAT 6 to allow for future additional bandwidth including cameras.
- Needs:
    - NOC-ERATE funded for redundancy
    - Barns-Internet capability for cameras
    - Additional Security Cameras (requested additional 47 plus memory)

Security Cameras:

- Security cameras will be upgraded from analog to digital. Cameras will be added as need dictates.
- Camera memory will have to monitored and purchased as we add more devices. Upgrading memory and storage allows more frames per second and allows us to keep footage for two weeks.

Technology team recommendations:

- Determine a method to introduce auxiliary devices to school personnel other than giving all staff a device carte blanche. It has been determined there is considerable waste installing Smartboards, document cameras, touchscreens and desktops in every classroom. Not all teachers use all devices. IMACs, document cameras, desktops, IPADS for personal or classroom use needs to be decided on a case by case method.
- Consider charging a usage fee at the Elementary and Middle School level
- Consider a universal check in check out procedure for Chromebooks at the Elementary and Middle School
- Develop a toner and printer replacement procedure to deal with high use of color prints.
- Determine a timeline, procedure for renew/refresh for Smartboards, touchscreens, document cameras and IPADs.
- Recommend installing tight beam internet availability to project and show barns.
- All new software being considered by staff, will fully use software/hardware purchase application with supporting agenda and notes.
- Keep mid-year software purchases to a minimum.
- Consider tools that allow us to monitor actual software usage so that we can make optimum decisions when it comes to software renewal
- Consider IPAD need and usage to determine plan:
    - IPADS are assigned to every teacher. It is not clear that every teacher desires or uses their IPADS
    - There are some specialty applications that require IPADS. We don't have a firm grip on whether it is cost effective to use them, since the Operating System is only supported for three years.
    - IPADS are needed on the Primary level to support Primary robotic and coding applications and some apps.
- Continue to use Go Guardian to monitor website traffic and users for prohibited searches.
- Have campus administrators agree on the level of discipline for prohibited internet searches, appropriate and fair discipline for abuse and damage of devises and at what point does the student pays for damages that are higher than the usage fee, when such damage is purposeful.

In order for this technology plan to mature, a plan for these recommendations and questions of the technology team needs to be addressed.

Suggested Refresh/renew timelines:

- Chromebooks renewed every year at the third, sixth and ninth grade level.
- One sixth of projectors renewed yearly
- One sixth of IMACs renewed yearly
- One fifth of staff MacAirs renewed yearly
- All servers, SANS renewed on a 7-10-year level
- Build a second NOC at the high school 80% ERATE funded
- Switches, routers renewed as ERATE funds
- Renew one fourth of windows based desktops with refurbished units yearly
- Renew specialty devices (laptops for robotics and engineering, IMACs for yearbook) on a five-year basis
- Renew one third of VEX robotics yearly

Budget considerations. At today's prices the following refresh/ renew costs annually are:

Chromebooks: $99,500

Projectors: $8,100

MacAirs: $52.500

Desktops: $21,500

IMACs: $52,500

Specialty Devices: $18,000

VEX robots: $13,000

Servers/SANS: $100,000 per refresh (every 7-10-years)

Document Cameras: $500 each

Smartboards: $2,400 each

IPADS: $400 each

Damaged Cameras $650