



Computer Replacement and Support
 Purchasing Decisions
 Updated December 2009

When will building student and staff computers be replaced? As the Technology Department receives enhancement money for replacement we will apply it to the existing 2006-2015 schedule (see schedule on the next page). If funding is not received during a certain year the schedule will be adjusted forward as funds are received. We will continue working toward support for a base budget allocation for computer replacement. This would allow us to continuously maintain the schedule, leading to more efficient delivery of computers, support of computers, collaboration among teachers, and integration in the classroom.

What will buildings receive? We have transitioned to a single platform within the district (*a few exceptions are made for career specific programming*). This decision to move toward PC computers is based on several factors, including:

- Additional hard cost factors associated with Mac (\$183,315 more per 4-year cycle + \$13,573 more per 4-year cycle to replace ¼ of the batteries).
- Costs in efficiency, staff time, and collaboration.
- Limited staff to help coach teachers in the transfer of computer-based resources to the classroom.
- Poor warranty options on Macs.
- Continuous issues with Mac and new technologies.
- Successful pilots of PC platforms.
- Encouragement of the School Board.

Comparisons (from 2008):

Topic/Option	PC (D531 Laptop)	MAC (Macbook)
Cost	Laptop = \$1, 074	Laptop = \$1,239
Components	15 inch screen, DVDRW	13 inch screen, cd/dvd player only
Parts Costs	Power Adapter = \$25 Battery = \$67	Power Adapter = \$72 Battery = \$116
Warranty	Three year “no questions asked” warranty covers all accidental damage (dropping, liquid spills, etc.).	Three year warranty on manufacturer defects only. Does not cover worn-off keys, spills, drops, etc.
“Change Management”	Swap Laptop CDROM: <5 minutes PC vs 30 minutes MAC Keyboard Replacement < 5 minutes PC vs 30 minutes MAC Email domain change 10 minutes for all PCs in district vs hand touching every MAC	
Backups	Auto backup and synchronization at startup and shutdown.	Requires the user to manually backup to the server.
Efficiency Costs	Each software package takes approximately 1-2 days to create (for each platform). Each time a new computer model is released or a new OS is shipped it takes 4-6 weeks to create a base image and test the computer prior to dissemination.	
Printers	Auto select and install through the print server (can be done by the end-user).	Must manually install printers on Mac with the printer IP number.
Mac and New Technologies	Most third party vendors develop for PC first. We have significantly more issues with Mac and... <ul style="list-style-type: none"> • NWEA Reports (Teacher and Admin); including some MAP Primary Reports • Powerschool & ViewPoint • ActiveBoards, Student Response Systems, etc. • Assistive Technologies 	

Tentative Replacement Schedule Based on Funding

The computer count includes all staff for whom the school listed is their primary building. It also includes critical multimedia labs at secondary and 30 student computers per elementary.	2006-2007	2007-2008	2008-2009	2009-2010	2010-2011	2011-2012	2012-2013	2013-2014	2014-2015
Centennial Elementary	36	34*				70			
Grimsrud Elementary		55				59			
Highland Acres Elementary			→	45			51		
Miller Elementary	39	33*				73			
Moses Elementary			→	67			69		
Murphy Elementary		84					87		
Myhre Elementary			→	67			69		
Northridge Elementary	42	34*				86			
Pioneer Elementary			→	57			58		
Prairie Rose Elementary			→	53			57		
Riverside Elementary			→	48			54		
Roosevelt Elementary		49				53			
Saxvik Elementary	24	39*				59			
Solheim Elementary			→	72			76		
Will Moore Elementary		62				72			
<i>New Northeast Elementary</i>					45	▶ **			
Horizon Middle School	85	4			165				165
Simle Middle School	145	15			197				197
Wachter Middle School	122	10			172				172
Bismarck High School	107	24		304				307	
Century High School	184	4		209				262	
South Central High School	13			15				34	
Adult Learning Center	5			5				5	
Bismarck Career Academy	16			68				68	
BECEP				20				20	
Administrative	33	8			105				105
TOTAL	846	455	0	1030	684	472	521	696	639

* Follow-up with 30 student computers and support staff.

** Northeast School will move to being replaced with other elementary schools in 2015-2016.