This proposal is for a school classroom that will be utilized for students and professional development. The classroom will feed off of the main distribution facility for the school. The lab will have 24 iMac computers, video cameras, digital cameras, a scanner, and a laser color printer. The lab will also be a "smart classroom" setup with audio, DVD player, cabinet to house materials, and a wall mounted smart board. There will be a wireless access point for laptop users or desktops to access if necessary. A 16-port switch will be put into place in addition to the wiring that is already in the room to allow access to the computers and the printer.

In order to put the network in place, I would use a star topology. With this design, the computers are all connected to either the wiring already in place or the 16-port switch and are then connected to the main distribution facility. This topology allows for one computer to go down without bringing the entire room down.

The lab will house multimedia components that will enhance the user's capabilities for learning and manipulation. The Apple interface is user friendly and includes all the needed programs for video, photo, and audio editing. By adding iWork 2008, you enable the users to create documents, spreadsheets, and presentations that can be saved in many formats to enhance the compatibility and user knowledge of programs. The following are price quotes for the lab and diagrams of the layout of the lab:

"Smart classroom": as quoted from Ken Matz: Core BTS- with the following:

1. Wiring
2. DVD
3. Audio
4. Smart Board
5. Cabinet

Price= $16,000.00

Hardware: 24 iMac Computers with iWork 2008: $29,280.00

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1	Canon CanoScan 8800F – Flatbed Scanner	1288846	$209.47	$209.47
3	Canon DC320 DVD Camcorder	1379740	$368.99	$1,106.97
1	HP Color LaserJet CP4005dn	1062732	$1,298.99	$1,298.99
1	Linksys Wireless-N Gigabit Router WRT310N	1395422	$114.70	$114.70
1	Canon REALIS SX60 Projector	970449	$2,999.00	$2,999.00
1	Linksys 16-port 10/100/1000 Gigabit Switch	507650	$228.99	$228.99
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⊖	3	CANON DC320 DVD CAMCORDER	1379740	1-3 days	$368.99	$1,106.97
⊖	1	HP Color LaserJet CP4005dn ($1498.99-$200 savings = $1298.99, ends 12/31)	1062732	In Stock	$1,298.99	$1,298.99
⊖	1	Canon REALiS SX60 Projector (TAA Compliant)	970449	Call	$2,999.00	$2,999.00
⊖	1	Linksys 16-Port 10/100/1000 Gigabit Switch	507650	In Stock	$228.99	$228.99
⊖	1	Linksys Wireless-N Gigabit Router WRT310N - wireless router	1395422	In Stock	$114.70	$114.70

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Final Cost:

"Smart Classroom"	$16,000.00
Hardware	$29,280.00
Peripherals	$ 6,408.09
Total	**$51,688.09**

Layout of Classroom:

Plugged into Ethernet wiring already in place

Access Point

Video cameras and Digital cameras

Smart Podium with DVD/ audio

Network Switch

Network Printer

projector

Plugged into Ethernet wiring already in place

Smartboard

scanner

Plugged into Ethernet wiring already in place