

Joseph Biondo
GILT511: Technology and Education
Grant Scenario

This generation of students are exposed to advanced technology every day in their personal lives, but not much has changed in how instruction is delivered in the classroom. Much of the instruction still relies on traditional pedagogy: overheads, black and white handouts, and two-dimensional figures in textbooks. This type of instruction is tried-and-true, but it doesn't match the immersive experience that students get on a regular basis when they are not in the classroom. It has been proven that students' learning needs are not always met through traditional learning methods. In my opinion, the best way to reach students in the classroom is to match their experience outside of the classroom.

I would like to formally request a grant for the following technology: TouchIT 75Z10 Interactive Flat Panel, HP Pavilion Chromebooks, and Canon - EOS Rebel T6 DSLR Camera. This grant will bring innovative technology to enhance the learner experience and allow students to retain more knowledge by making lessons immersive and interactive. I will be able to teach more effectively and relevantly to the students' needs using the technological tools proposed in the grant. An added benefit is that other teachers will be able to utilize the majority of the equipment for their own lessons.

The TouchIT 75Z10 Interactive Flat Panel is the item I would like to have the most. This piece of technology would be a core component in my classroom. I would be able to use the flat panel to design my own interactive lessons. In addition, the flat panel comes pre-loaded with 10,000+ state sanctioned lessons I could integrate into my class. Recently, I was able to observe a class where the flat panel was used and I was impressed by the way the students were engaged in the learning. All of the students wanted to physically interact with the board. They all gravitated towards the bright visuals and multimedia components. The flat panel broaden the participation of the teacher and the students. It was a truly eye opening experience. I feel that this flat board would be a game changer in my classroom.

My desire is to use the flat board for math, science and reading lessons. The ability to integrate multimedia into my lessons will engage my students and allow them to thrive. As teachers are trained to use the flat panel, they will be able to serve as power users and train other teachers to use the board. Also, the flat panel that would be used in my classroom can be used as a test case before a larger investment in technology is requested at the school.

The next piece of technology I would like to request is fifteen HP Pavilion Chromebooks. Students would be able to use the Chromebooks for word processing, multimedia, assignments, and research. The Chromebooks would seamlessly integrate with the TouchIT 75Z10 Interactive Flat Panel, since the flat panel and the Chromebooks both run on the Chrome OS. Google's cloud based software is already installed out-of-the-box and optimized for the Chromebook, so there would not be a heavy cost associated with software once the Chromebooks are procured. The Chromebooks are Wi-Fi enabled, so the student would be able to connect to the internet and to the TouchIT 75Z10 Interactive Flat Panel using the school's existing Intranet. Another benefit of the Chromebooks is that it would give each student the same exact tool and experience to do assignments. Currently, if I wanted to integrate a technological component like online research into one of my lessons, I would have to assign that as homework. This created an unfair advantage because some students didn't have a computer at home, so they were not able to complete an assignment. The cost, quality, and educational value of the Chromebook is unparalleled.

Finally, the last piece of technology I would like to request is the Canon - EOS Rebel T6 DSLR Camera. This is a versatile camera that can be used to take high resolution photos that would be great for print and for digital use. Also, the camera can be used to record high quality video. Students would be able to use the camera as a way to creatively express themselves and in the process they would learn how to work with digital photos and videos. The camera could be used in the classroom to enhance a portfolio or to record a student presentation. Also, the camera could be used outside of the classroom on a field

trip or scavenger hunt. One example of how I would integrate the camera into a lesson is that I envision taking the students to the New Jersey Shore to take photos and video of dune grass, sand dunes and other elements at the beach that prevents beach erosion. We would import the multimedia we capture from the camera, use our Chromebooks to create an interactive project about the field trip, and then have the students display their project on the flat panel. The possibilities are endless with the camera because it is so easy to use and can be used in a variety of creative ways.

For me to create this truly integrated suite of technological tools for my classroom, I'll need the funds for one TouchIT 75Z10 Interactive Flat Panel (\$4,999.00), fifteen HP Pavilion Chromebooks (\$359.99 x 15 = \$5,399.85) and one Canon - EOS Rebel T6 DSLR Camera (\$449.99). The amount of grant assistance needed in total is \$10,848.84. The cost of the flat panel includes the cost of installation and training.

If you provide the funds for these resources, I'm prepared to use these tools to give my students the high quality and cutting edge education they deserve. Since the tools are not difficult to learn, the students will be able to utilize the tools immediately. This technological classroom I'm proposing would be a pioneering achievement for Northeast Catholic Elementary and would serve as the model for other schools in the district to integrate instructional technology into their own classroom. Your generosity would give the students the tools needed to give them an edge that will propel them to greatness in the future. I'm grateful for your time and consideration of this grant proposal.

Technology Summary

| Technology | Cost | Applications | Overall Reviews |
|---|-------------------------------|---|---|
| TouchIT 75Z10 Interactive Flat Panel | \$4,999.00 | Interactive Flat Panel LED with onboard Android operating system. | Annotate, take notes, save - all without having to connect a computer to the LED. The flat panel comes with its own App Store. It's truly a plug and play system. |
| HP Pavilion Chromebook (Wi-Fi) | \$359.99 x 15 = \$5,399.85 | The HP Pavilion Chromebook is a laptop. It's good for word processing, videos, photos, and internet browsing. | The 14" screen makes it easy to work with multimedia. This versatile device includes a HDMI port, 3 USB ports, and a multi-format digital card reader. |
| Canon - EOS Rebel T6 DSLR Camera | \$449.99 | The Canon - EOS Rebel T6 is an 18.0 Megapixel high-performance digital camera and with full 1080p video recording capability. | The built-in Wi-Fi connectivity allows this DSLR to easily transfer digital photos and videos to compatible smart devices. |
| | Total: \$10,848.84 | | |

Technology Evaluation

| | | | |
|-------------------------------|--|--|---|
| Equipment | TouchIT 75Z10 Interactive Flat Panel | | |
| Description | This item is an interactive flat panel with a 10 point touch screen with anti-glare glass, slim profile and front control & input buttons. It has Integrated speakers 2 x 10W, On Board Android and plug and play | | |
| Vendor | Touch It Technologies - \$4,999.00 | | |
| Notes on Use | This is a powerful and affordable audiovisual display that is and easy to use. The flat panel comes with 10,000 state aligned lessons and can be used as a cloud-based lesson delivery, creation and collaboration platform. | | |
| Hardware Feature | 1 Poor | 2 Average | 3 Excellent |
| Ease of Use | No or minimal setup instructions or missing summary list of hardware components | Instructions complete and adequately user-friendly; necessary equipment | Pictorial or video guide showing step-by-step assembly with clear, easy –to-follow instructions; equipment goes together and smoothly |
| Space | Space required may exceed maximum available | Space required by equipment is appropriate to available space with current room configuration | Space requirement is equal to or less than the space available; equipment adds to the look and usefulness of the room without crowding |
| Tutorials/ Training Available | No tutorials packaged with equipment; no online or other training available | Brief tutorial provided on CD-ROM with equipment; some additional tutorials or training available at minimal cost | CD and online tutorials and training materials available without charge; in-house training provided for free or minimal cost. |
| Other Criteria | | | |
| | | | |

Technology Evaluation

| | | | |
|----------------------------------|---|---|--|
| Equipment | HP Pavilion Chromebook (Wi-Fi) | | |
| Description | This item is a portable laptop that can be connected to the Internet via Wi-Fi. This product will integrate with the TouchIT 75Z10 Interactive Flat Panel. | | |
| Vendor | Hewlett-Packard - \$359.99 x 15 = \$5,399.85 | | |
| Notes on Use | This Chromebook is a versatile computer that is perfect for word processing and multimedia. It includes a 14" screen and a spacious keyboard featuring full-size keys. The Chromebook will be a useful tool for students for a wide range of assignments. | | |
| | | | |
| Hardware Feature | 1 Poor | 2 Average | 3 Excellent |
| Ease of Use | No or minimal setup instructions or missing summary list of hardware components | Instructions complete and adequately user-friendly; necessary equipment | Pictorial or video guide showing step-by-step assembly with clear, easy –to-follow instructions; equipment goes together and smoothly |
| Space | Space required may exceed maximum available | Space required by equipment is appropriate to available space with current room configuration | Space requirement is equal to or less than the space available; equipment adds to the look and usefulness of the room without crowding |
| Tutorials/ Training Available | No tutorials packaged with equipment; no online or other training available | Brief tutorial provided on CD-ROM with equipment; some additional tutorials or training available at minimal cost | CD and online tutorials and training materials available without charge; in-house training provided for free or minimal cost. |
| Other Criteria | | | |
| | | | |

Technology Evaluation

| | | | |
|-------------------------------|--|---|--|
| Equipment | Canon - EOS Rebel T6 DSLR Camera | | |
| Description | This is digital point-and-shoot camera with video recording capability. Built-in Wi-Fi connectivity makes it easy to share and print pictures and videos. | | |
| Vendor | B&H Photo Video - \$449.99 | | |
| Notes on Use | This multi-use camera can be used as a collaboration tool. Photos and videos can be used to enhance learning. The Wi-Fi feature will allow the camera to integrate with the HP Pavilion Chromebook (Wi-Fi) and TouchIT 75Z10 Interactive Flat Panel. | | |
| | | | |
| Hardware Feature | 1 Poor | 2 Average | 3 Excellent |
| Ease of Use | No or minimal setup instructions or missing summary list of hardware components | Instructions complete and adequately user-friendly; necessary equipment | Pictorial or video guide showing step-by-step assembly with clear, easy –to-follow instructions; equipment goes together and smoothly |
| Space | Space required may exceed maximum available | Space required by equipment is appropriate to available space with current room configuration | Space requirement is equal to or less than the space available; equipment adds to the look and usefulness of the room without crowding |
| Tutorials/ Training Available | No tutorials packaged with equipment; no online or other training available | Brief tutorial provided on CD-ROM with equipment; some additional tutorials or training available at minimal cost | CD and online tutorials and training materials available without charge; in-house training provided for free or minimal cost. |
| Other Criteria | | | |
| | | | |