



Technology Review

Planning for the next 5 Years...
2015-16 to 2020-21



George Weeks
Director of Technology



- \$1.7M Technology Infrastructure Overhaul
 - Upgraded all Network and Wireless equipment
 - Upgraded to Unified Communications systems
 - Including Phones and Paging Systems
 - Alerting Systems
 - Replaced Clocks
 - Integrate with Communication Systems
 - Upgraded Network Security Devices





What did that do for us?

- Increased bandwidth (speed) 10x
 - Faster communication between devices, closets and buildings
- Increased capacity 2x-4x
 - Allows additional devices on wireless (BYOD)
 - Allows additional devices on wired network
 - HVAC control and monitoring
 - Security and Video surveillance systems
- Ability to accommodate future technology



Maintaining for Tomorrow

- **Summer 2016** - Upgrade all existing computers to Windows 10 and Office 2016
- **Summer 2017** - Refresh Servers and Storage (\$23K/yr - \$115K)
- **Summer 2018** - Refresh Computers and laptops (\$242.5K/yr - \$1.2M)
- **Fall 2016** - Pilot 1:1 Chromebook initiative at GHS (Expiring Lease in OpEx)



How to Pay for It

- Use of OpEx Budgets
 - Continue regular refresh cycles to stay on top of technology changes
 - Continue leasing where possible to equalize budget
 - May require additional leases
 - May require expansion of refresh scope
 - Utilize for computer/device purchases
 - Use of one time funding when appropriate
 - Use for lower level devices, like projectors or touch screens



Planning for the next 5 Years : What Preliminary Strategic Planning is asking for

- **Additional Student Computers**
 - More Laptop carts or 1-to-1 devices
 - Immediate need – testing
 - Teachers fighting for resources
- **Interactive Classrooms**
 - Replace aging projectors and Smartboards with emerging interactive technology
- **Increase Number of Support Staff**
 - Technology Coach/Supervisor for Integration
 - Additional Support Staff – Tech and Network
 - Clerical Support for Department
 - Paperwork, registrations, web maintenance



What does it do for us?

- Digital, Interactive Classrooms
 - Use of technology devices to engage students and meet core curriculum standards
 - Provide alternate delivery mechanisms that can include distance learning
- Additional Devices (Laptops or 1:1 device)
 - Provide each student the digital tool needed to interact with learning environment
 - Provide anytime, anywhere access by creating digital learning environments
- Additional Support Staff
 - Coach - model learning environments, provide staff training
 - Techs – required to repair and maintain devices



What to Avoid

- **Tech for Tech Sake**
 - Don't do to keep up with the Jones
 - Appropriate technology that fits US (Glassboro)
 - Over use of free consumer apps
- **Inappropriate technology that cannot**
 - Engage students in learning or create an interactive environment
 - Run required apps or software for course requirements
 - Provide usable skills for emerging careers
- **Appropriate levels of support**
 - Teaching the teachers to use and integrate the technology properly
 - Personnel on hand to effect repairs in a timely manner



Final Thoughts

- We have created and are providing a technology infrastructure that can handle almost any existing technologies
- We have built-in future proofing based on current tech industry trends and predictions
- Moving forward we must provide appropriate budget resources to fund technology as an investment in our children's future
- Purchase the devices, applications and training for staff, and students, to create, implement and maintain an engaging and interactive educational learning environment