



WPS Auditorium Sound Systems

Broad Ideas

Introduction

Our goal is to ensure each auditorium is equipped with an audio system that supports our school community for events including:

- Assemblies and school meetings
- Music performances
- Musicals & Theater Performances
- Parent gatherings
- Guest speaker presentations
- Community events and cultural celebrations
- Professional development workshops
- Competitions, debates, and awards ceremonies
- *Music Classroom Needs

*Note: Four schools use the auditorium stage as a classroom every day.

Priority in purchase & replacement

Speakers (Critical Priority):

- Multiple speakers strategically placed to provide balanced, clear coverage to every seat.
 - Properly placed and adjusted delay speakers ensure clarity, natural sound, and even coverage, especially important for student audience engagement.
- Monitor speakers aimed at the performers to hear themselves and others (pit orchestra, electronic instruments, etc).

Priority in purchase & replacement

Control Systems (Critical Priority):

- Soundboard with the following features:
 - Easy presets for various uses (concerts, assemblies)
 - Auto-mix capacity
 - “Easy/analog” interface for younger student use
 - Capacity of being quickly reset to a baseline configuration regardless of prior adjustments
- HS only - Automix system independent of audio console (secondary priority)
 - Function without console but utilize common speakers
 - Wall input and volume control in room
 - Bluetooth connectivity w/ security
 - Relay for all-call/emergency annc to interrupt audio signal

Priority in purchase & replacement

Wireless Microphone System (Third Priority):

- 4 handhels at each school for most assemblies and events.
- Remotely placed antennas for reliable transmission, even in crowded spaces.

Priority in purchase & replacement

Elementary School Specific Needs:

Base System

- Speakers tailored for different spaces (gymatoriums, multipurpose rooms, auditoriums) but with consistent soundboard/user interfaces for efficiency in ease in training, troubleshooting, and use
- Redundancy across district when when there's failure
- 4 Handheld microphones for meetings, concerts, assemblies
- Annual Rental of Lavalier/body/Madonna mics

Add on

- Speakers for daily "classroom" use in buildings as needed
- District-owned portable "to-go" kits of additional 6 lavalier mics



Coleytown
Elementary
School

Greens Farms
Elementary
School





Kings Highway
Elementary
School

Long Lots
Elementary
School





Saugatuck
Elementary
School

Priority in purchase & replacement

Middle School Systems:

- Differences between schools:
 - CMS theater program rents all microphone, sound board, and speakers.
 - At BMS, the theater director, who also acts as an audio engineer, has used theater funds to purchase newer speakers, 30 lavalier microphones, and more. He is also hired for concerts and events.
- Result: These disparities leave vastly different capabilities for music performances, assemblies, etc., despite appearing similar during theater performances.

Priority in purchase & replacement

Middle School Systems Needs:

- Adequate front, delay, and monitor speakers
- Soundboard with installation allowing for "Auto-Mix" for Assemblies, Meetings, Concerts
- 4 Handheld microphones
- Integration with video system
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Bedford
Middle School





Coleytown
Middle School

Priority in purchase & replacement

High School Specific Needs:

- Full sound system, including independent amplification, reinforcement, and intercom.
- Monitor speakers, as well as video monitors will be required in the black box theater, all music rooms (often used as dressing rooms), faculty offices, costume shop and selected corridors.
- Infrastructure for independent operation from stage (without mixer), sound operation in the sound booth (concerts and smaller events), and the current mix location at the rear house left - live mixing with audio engineer.

Priority in purchase & replacement

High School Specific Needs:

- Tie lines will be available throughout the stage, auditorium and black box theater for audio and video connectivity.
- While a complete sound/AV system will be designed, possible phasing of the work will need to be determined (both from a construction and financial point of view.)

Staples
High School





Staples
High School



Staples
High School

Staples
High School



Staples
High School



Long Term Goals for all WPS Facilities

Efficiency and Standardization:

- Same soundboard for all elementary schools, with future scalability for middle schools.
- Standardized equipment allows for efficient training for students and staff, troubleshooting, and cost-saving equipment sharing.
- Establish a baseline for oversight and structured replacement cycles for building principals, tech, and facilities departments
- Compatibility and integration with modern technology (bluetooth, wifi, video systems, etc.)
- Alignment with staff expertise.

System Issues & Challenges

Current oversight of auditoriums

No centralized person in charge of oversight or funding of the 7 auditoriums - auditorium manager

Music Teachers - Theater Directors - Parents



Facilities - Principals - Director of Technology
Coordinator of Music/Visual Arts

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System Issues & Challenges

KHS (Immediate Need):

- Cutouts during spring musical.
- Poor speaker placement leading to uneven sound coverage for audience & classroom space.
- Wireless microphones may also be a problem - can't diagnose until new speaker/amps/board is installed.

GFS (Short term need):

- Buzz/Humm during all performances

System Issues & Challenges

CMS (Immediate Need):

- Dysfunctional during a fall assembly

SHS (Short Term Need):

- No system in place. Last installation 33 years ago.
- Staples relies on a patchwork of funding (School budget, PTA/SMPA, donors, and Players ticket sales) to rent equipment and audio personnel annually.

Replacement and Repair Cost Range

Multiple Quotes for SES, KHS, CMS

Typical Full-Replacement

- Elementary Schools - \$40-60k
- Middle Schools - \$80-100k

No quote yet for GFS (budgeted in Tech Budget 2026)

SHS outline/spec in a few weeks - walk through with Ted,
Music/Theater Staff, and Steve Zimmerman Jan 21st