Unit 03: Stage, Lighting & Sound

Content Area: **Music**
Course(s):
Time Period: **Marking Period 1**
Length: **6 Weeks**
Status: **Published**

Brief Summary of Unit

This unit will focus on the principles of stage lighting and sound, both in terms of design and operation. The students will develop and understanding of the various instruments how to use them in live performance.

Standards

- ELD standards:https://docs.google.com/document/d/1wdmsiGOdCHlrjU-WPvAtENnEgi0EStZXo0uiFYv1Nu4/edit
- 1.4.12prof.Cr1b: Explore the impact of technology on design choices in devised or scripted theatre work.
- 1.4.12acc.Cr1b: Understand and apply technology to design choices for devised or scripted theatre work.
- 1.4.12adv.Cr1b: Create a complete design for devised or scripted theatre work that incorporates multiple elements of technology.
- 1.4.12prof.Cr3c: Explore technical design choices that support the story and emotional impact of a scripted or devised theatre work.
- 1.4.12acc.Cr3c: Re-imagine technical design choices during the course of the rehearsal process to enhance the story and emotional impact of a devised or scripted theatre work.
- 1.4.12adv.Cr3c: Originate and construct technical design choices that support the story and emotional impact of a devised or scripted theatre work.
- 1.4.12prof.Pr4b: Use technical elements to increase the impact of design for a theatre production.
- 1.4.12acc.Pr4b: Apply theatrical elements and research to create a design that communicates the concept of a theatre production.
- 1.4.12adv.Pr4b: Create and justify the selection of technical elements used to develop and build a design that communicates the concept of a drama/theatre production.
- 1.4.12prof.Re8b: Evaluate the aesthetics of the production elements in a devised or scripted theatre work and their ability to support or extend the storyline.
- 1.4.12acc.Re8b: Construct meaning in a devised or scripted theatre work considering personal aesthetics and knowledge of production elements while respecting others' interpretations.
- 1.4.12adv.Re8b: Analyze and evaluate varied aesthetic interpretations of production elements for the

same devised or scripted theatre work.

Transfer

Essential Questions

- How do you hang and focus lights for a production?
- What are the steps to hanging, patching, and focusing lighting instruments based on a lighting design?
- How do you operate a light board and what are its various functions?
- How do you create and execute a light or sound plot?
- What are the steps to sound and dimmer checking before shows and why are they necessary?
- How do you operate a sound board and what are its various functions?
- What other forms of technology go into lighting and sound?
- What is the basic terminology used in lighting and sound design?

Essential Understandings

- How do you hang and focus lights for a production?
- What are the steps to hanging, patching, and focusing lighting instruments based on a lighting design?
- How do you operate a light board and what are its various functions?
- How do you create and execute a light or sound plot?
- What are the steps to sound and dimmer checking before shows and why are they necessary?
- How do you operate a sound board and what are its various functions?
- What other forms of technology go into lighting and sound?
- What is the basic terminology used in lighting and sound design?

Students Will Know

- Students will know the various lighting instruments and what they're used for.
- Students will know various microphones and what they're used for.
- Students will know basic lighting and sound terminology.
- Students will know three-point lighting.
- Students will know how to use gels, gel frames, top hats, lamps, and other lighting accessories.

Students Will Be Skilled At

- Students will be skilled at fixing, maintaining, and rewiring lighting instruments.
- Students will be skilled at safely handling electrics and arbor systems.
- Students will be skilled at lightboard operations in both designing and running performances.
- Students will be skilled at hanging, patching, running cable, and focusing lighting.
- Students will be skilled at mic'ing actors and spaces.
- Students will be skilled at sound equalization.
- Students will be skilled at soundboard operations in both designing and running performances.

Evidence/Performance Tasks

- Students will demonstrate comprehension by successfully performing practical tasks such as inventory taking and patching.
- Students will demonstrate ability to maintain or fix the technology using appropriate terms and tools.
- Students will demonstrate mastery of performance by running boards during live events.

Learning Plan

- Inventory all lighting and sound instruments in theatre, test them, and create a working inventory list.
- Analyze scripts of current productions and design sound and lighting for them.

- Hang, patch, gel, and focus lighting based off the design adhering to the principles of three-point lighting.
- Setup body and area microphones based off the sound plot.
- Create and run sound effects on QLab.
- Build and record different lighting looks into submasters and cues.
- Run cues on the lightboard/soundboard during rehearsals and performances.

Materials

- Lightboard
- Soundboard
- Ladders
- Cables
- Lights
- Mics
- Various Accessories

Suggested Strategies for Modifications

Technical Theatre Accommodations