MUSIC TECHNOLOGY (SOUND ENGINEERING) SUMMER INDEPENDENT LEARNING

YEAR 12-13



TOPIC 1 – LIVE SOUND PREPARATION/RESEARCH

- Research and explain the following terms and how they relate to live sound;
- function of multi-speaker arrays, e.g. 2 way, 3 way
- array design, e.g. ground stacks, flown line array
- dynamic drivers
- horn loading
- Impedance
- output wattage (root mean square (RMS)/peak)
- active and passive.





TOPIC 1 – LIVE SOUND PREPARATION /RESEARCH

- Continue your research and explanation on the following;
- Power amplifiers how to choose appropriate power amplifiers for a live sound system:
- output wattage (RMS/peak)
- Impedance
- digital and solid state designs.

- Explain what you would expect each one of these roles to be responsible for. Make sure you do this in class notebook.
- •FOH engineer.
- Monitor engineer.
- Backline technician.
- Road manager.
- Roadie.
- Stage manager.

TOPIC1-LIVE SOUND PREPARATION /RESEARCH

LIVE SOUND SYSTEM DESIGN FOR STADIUMS

<u>https://www.youtube.com</u> /watch?v=tjUKD4tuFMc



TOPIC 1 – LIVE SOUND PREPARATION/RESEARCH

Why is it important perform a soundcheck at a concert? Write all the reasons you can think of.

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What are some of the health and safety concerns regarding setting up live sound? Write a list of all the things that could potentially go wrong.



Why do you think it is important to carry out a risk assessment when planning a live sound set up?

TOPIC 2 – DAW PRODUCTION PREPARATION

- What is the Nyquist Theorem? Explain and include your own drawing to represent the theory.
- What can altering the bit depth/sample rate change on a project?
- Explain 'Step Input'.

TASK 2 - CREATING AND PRODUCING MUSIC TO A BRIEF VIDEO

Watch the video and make notes on any useful processes seen in the video.

https://www.youtube.com/watch? v=SWFEig6ls_0&t=1202s



ADDITIONAL RECOMMENDED CONTENT

- Follow the link below to 'The MIDI Manual'. Read pages 1-12. (Chapter 1 – What is MIDI?). This has some great explanations of things and will really help with your understanding of how MIDI works for the DAW unit.
- Summarise the text by making notes in class notebook so you can access it and revise from it next year.
- <u>https://www.google.co.uk/books/edition/The_MIDI_Manual/ZT</u> <u>Wv1fAMm6MC?hl=en&gbpv=1&dq=working+with+midi&prin</u> <u>tsec=frontcover</u>