

Southern Cayuga Central School District – Curriculum Map

Subject: Music Production 1 & 2

School Year: 2022-2023

Title of Topics	Standards	Skills	Essential Question/Objectives	Vocabulary	Major Assessments	Time frame
Intro to Music Production	Cn.10 Cn.11	Students will be able to... Label the parts of a soundwave	What makes up a soundwave? How do we measure the parts of a soundwave?	Soundwave Frequency Amplitude Wavelength Rarefaction Compression Velocity of Propagation	Soundwave worksheet	1 week
What is Music Production	Cr.1 Cr.2 Cn.10 Cn.11	Students will be able to... Identify and define basic terms used in music production	What is music production? What does a music producer do? What digital and physical tools does a music producer use?	DAW Songwriting and composition Sound design Samples Mixing Mastering Production Environment	What is Music Production Notes sheet	1-2 classes
Intro to Soundtrap	Cr.1 Cr.2 Cr.3 Pr.4 Pr.5 Pr.6 Cn.10 Cn.11	Students will be able to... Navigate the basics of the Soundtrap app	How do I start a new project? How do I share a project? Where are the loops located? How do I edit my sounds?	Soundtrap Loops Beatmaker	Soundtrap tutorials checklist	1-2 classes
Creating and alarm and ringtone	Cr.1 Cr.2 Cr.3 Pr.4 Pr.5 Pr.6 Re.7 Re.8	Students will be able to... Create 30-60 second loops that reflect the themes they chose to use as phone alarms and ringtones	How do the sounds I chose match the theme? What makes an alarm sound different than a ringtone? What instruments represent different feelings and how do	Digital Instruments Emotional connection to sound Balance Theme	Alarm and Ringtone assignment/Presentation	1 week

	Re.9 Cn.10 Cn.11		they effect my choices in this loop?			
Remix Project	Cr.1 Cr.2 Cr.3 Pr.4 Pr.5 Pr.6 Re.7 Re.8 Re.9 Cn.10 Cn.11	Students will be able to... Take a piece of classical music and add loops to create a “remixed” version of the song.	Does my piece change time or tempo? Do the pitched sounds in my loop clash with the key of the original song? Can I effectively move through transitions within the piece using different loops?	Tempo Pitch Time signature Remix	Remix presentation	2 Weeks
Types of Microphones	Re.7 Re.8 Re.9 Cn.10 Cn.11	Students will be able to... Identify several types of microphones and their technical applications Recognize and name the parts of a microphone Properly care for and store microphones and their accessories	How does a microphone work? What are the different types of microphones? What are their practical applications? Which microphone is appropriate for which activity? What cords are used to connect microphones to a DAW or mixing board?	Dynamic mic Condenser mic Ribbon mic USB mic Proximity effect Transient response Sensitivity Diaphragm Impedance and balance XLR Cables AUX Cables	Match the microphone activity Troubleshooting microphone and recording issues Wrapping a cable	2 weeks
Parts of a mixing board	Cn.10 Cn.11	Students will be able to... Identify the parts of an analog and digital mixing board using the Yamaha board and SQ6 mixer.	What does each nob and port do? What is the difference between an analog board and a digital board?	Analog Sound Board Digital Sound Board	Labeling a diagram of analog and digital board Using both the analog and digital boards in the auditorium to create a sound plot	1-2 weeks
Recording spaces	Cn.10 Cn.11	Students will be able to...	What makes a recording space work?	Physics Rarefaction	Sound Map of the auditorium	2 weeks

		<p>Identify what aspects of a space will affect the sound and recording and decide what needs to change to create the best recording</p> <p>Calculate the angles and positions of a speaker system using the chorus room.</p>	<p>What must we absolutely have to create a good recording environment?</p> <p>How can we get creative to create these spaces in a less than desirable environment?</p>	<p>Reflection</p> <p>Absorption</p> <p>Speaker type</p> <p>Speaker angle</p> <p>Dampeners</p>		
Recording voices vs. recording instruments	Cn.10 Cn.11	<p>Students will be able to...</p> <p>Identify the specific differences between recording voices and recording instruments in different ensemble or solo settings</p>	<p>What types of microphones do we use for recording instruments vs. vocals?</p> <p>What is the best way to record an ensemble?</p> <p>What can we take away from the knowledge we have gained with virtual performances over the past few years during the pandemic?</p>	<p>Ensembles</p> <p>Recording Setting</p> <p>Recording prep</p> <p>Virtual ensemble</p> <p>Post production techniques</p> <p>Pre-production techniques</p>	Chorus/band recording project	2-3 weeks
Unit 3: Music Engineering: Hearing and Listening	Cn.10 Cn.11	<p>Students will be able to...</p> <p>Identify 2 types of monitors and their appropriate set ups for studio use.</p> <p>Calculate the appropriate nearfield set up for the chorus room, auditorium, and music lab</p>	<p>How do we use nearfield monitors?</p> <p>What is supplementary monitoring?</p> <p>What is the best way to set up a studio?</p>	<p>Nearfield Monitors</p> <p>Supplementary Monitoring</p> <p>Low end damage limitation</p> <p>Porting</p> <p>Waterfall plots</p> <p>Filtering</p> <p>Acoustic reflections</p> <p>Subwoofer</p> <p>Resonance</p> <p>Filtering</p> <p>Open back vs. closed</p> <p>Headphones</p>	Set up nearfield monitoring system in the chorus room, discuss other room settings and how it would change the nearfield system	2-3 weeks

Music Engineering: Mix Preparation	Cr.1 Cr.2 Cr.3 Pr.4 Pr.5 Pr.6 Re.7 Re.8 Re.9 Cn.10 Cn.11	Students will be able to... Open and configure a simple DAW system for audio editing.	What is a DAW? How do we perfect timing in the DAW? How do we record and set up our recording in the DAW to best prep our workspace?	Timing Tuning Comping arranging	Create a 30 second "remix" using 5 found sounds	2-3 weeks
Recording sound effects	Cr.1 Cr.2 Cr.3 Pr.4 Pr.5 Pr.6 Re.7 Re.8 Re.9 Cn.10 Cn.11	Students will be able to... Identify the sounds needed to add to a track Use creative techniques to record sounds to use in post-production mix.	How are sound effects created? Why are sound effects done in post-production? How are sound effects controlled in a live performance?	Effect Pre-production Post-production	Sound Effects Project: Take a 30 second clip from a show or movie and create alternative sound effects based on the movement of the characters. Live Sound Effects: Design a sound effects plot for the Musical and install the sounds onto a digital interface.	1-2 weeks
Music Engineering: Balance	Cr.1 Cr.2 Cr.3 Pr.4 Pr.5 Pr.6 Re.7 Re.8 Re.9 Cn.10 Cn.11	Students will be able to... Listen and execute appropriate edits of simple vocal recordings.	How do we create balance between instruments? What is compression and how is it used? What is EQ and how is it used?	Balance Compression Equalization Frequency selective dynamics Side chains	Record a 30 second vocal melody and use EQ and compression to create a professional sound	2-3 weeks
Music Engineering: Finalizing Your Mix	Cr.1 Cr.2 Cr.3 Pr.4 Pr.5	Students will be able to... Appropriately edit a recording of a full ensemble.	How do reverb and delay add or take away from our mixes? When do we stop mixing and produce a final product?	Reverb Delay Stereo Enhancements Master-buss processing	Use a recording of HS chorus to clean up and create a polished sound	2-3 weeks

	Pr.6 Re.7 Re.8 Re.9 Cn.10 Cn.11			automation		
Live mixing	Cr.1 Cr.2 Cr.3 Pr.4 Pr.5 Pr.6 Re.7 Re.8 Re.9 Cn.10 Cn.11	Students will be able to... Use their knowledge of sound board engineering and recording to determine what needs to be done to enhance a sound that is being produced in a live performance Actively problem solve in real time during a performance	How do we problem solve quickly and efficiently based on the space and what the sound is doing vs. what we want the sound to be? What are the limitations of mixing live in various spaces? What are the most common issues that sound engineers face during a live performance?	Microphone Live engineering Compression Reverb Effects Gain Feedback Bussing	Create a live mix during a performance of chorus and/or band	1-2 weeks
Final Class Project	Cr.1 Cr.2 Cr.3 Pr.4 Pr.5 Pr.6 Re.7 Re.8 Re.9 Cn.10 Cn.11	Students will be able to... Record and refine an original composition based on skills learned in theory and sound tech.	How do we refine and finalize a composition? How do we decide when a recording is finished? How do we present our recording to an audience?	DAW Microphone	Final Composition and Recording project	2 weeks