# **TOWNSHIP OF UNION PUBLIC SCHOOLS**



# **Music Applications and Technology**

Adopted: July 30, 2024

#### Music Technology and Applications

Unit 1: Foundations of Music Technology

Grade level: 9-12 Timeframe: 3-4 Weeks

#### **Guiding Questions**

How do musicians generate creative ideas?

How do musicians make creative decisions?

How do musicians improve the quality of their creative work?

How do musicians make meaningful connections to creating, performing and responding?

When is creative work ready to share?

How do other arts disciplines, contexts, and daily life inform creating, performing, and responding to music?

How does understanding the structure & context of musical works inform a performance?

How do individuals choose music to experience? How does understanding the structure and context of music inform a response? How do we judge the quality of musical work(s) and performance(s)?

#### Standards

**Standards (Taught and Assessed)** 

1.3B.12prof.Cr1a: Describe how sounds and short musical ideas can be used to represent personal experiences, moods, visual images, and/or storylines.

1.3B.12prof.Cr2a: Assemble and organize sounds or short musical ideas to create initial expressions of selected experiences, moods, images or storylines.

1.3B.12prof.Cr2b: Identify and describe the development of sounds or short musical ideas in drafts of music within simple forms (e.g., one part, cyclical, binary).

1.3B.12prof.Cr3a: Identify, describe and apply teacher-provided criteria to assess and refine the technical and expressive aspects of evolving drafts leading to final versions.

1.3B.12prof.Cr3b: Share music through the use of notation, performance or technology, and demonstrate how the elements of music have been employed to realize expressive intent.

1.3B.12prof.Cn10a: Demonstrate how interests, knowledge and skills relate to personal choices and intent when creating, performing, and responding to music.

1.3B.12prof.Cn11a: Demonstrate understanding of relationships between music and the other arts, other disciplines, varied contexts, and daily life.

1.3E.12prof.Cr1a: Generate melodic, rhythmic and harmonic ideas for compositions or improvisations using digital tools.

1.3E.12prof.Cr2a: Select melodic, rhythmic and harmonic ideas to develop into a larger work using digital tools and resources.

1.3E.12prof.Cr3a: Drawing on feedback from teachers and peers, develop and implement strategies to improve and refine the technical and expressive aspects of draft compositions and improvisations.

1.3E.12prof.Cr3b: Share compositions or improvisations that demonstrate musical and technological craftsmanship as well as the use of digital tools and resources in developing and organizing musical ideas.

1.3E.12prof.Re7a: Cite reasons for choosing music based on the use of the elements of music, digital and electronic aspects, and connections to interest or purpose.

1.3E.12prof.Re7b: Explain how knowledge of the structure (e.g., repetition, similarities, contrasts), technological aspects, and purpose of the music informs the response.

1.3E.12prof.Re8a: Explain and support an interpretation of the expressive intent of musical selections based on treatment of the elements of music, digital and electronic features, and purpose.

1.3E.12prof.Re9a: Evaluate music using criteria based on analysis, interpretation, digital and electronic features, and personal interests.

Highlighted Career Ready Practices and 21st Century Themes/Skills

- 9.3.12.AR.5 Describe the career opportunities and means to achieve those opportunities in each of the Arts, A/V Technology & Communications Career Pathways.
- 9.3.12.AR.6 Evaluate technological advancements and tools that are essential to occupations within the Arts, A/V Technology & Communications Career Cluster.
- 9.3.12.AR-AV.1 Describe the history, terminology, occupations and value of audio, video and film technology.
- 9.3.12.AR-AV.2 Demonstrate the use of basic tools and equipment used in audio, video and film production.
- 9.3.12.AR-AV.4 Design an audio, video and/or film production.
- 9.4.12.Cl.1: Demonstrate the ability to reflect, analyze and use creative skills and ideas.
- 9.4.12.CI.2: Identify career pathways that highlight personal talents, skills and abilities
- 9.4.12.CT.2: Explain the potential benefits of collaborating to enhance critical thinking and problem solving
- 9.4.12.TL.1: Assess digital tools based on features such as accessibility options, capacities and utility for accomplishing a specified task
- 9.4.12.TL.3: Analyze the effectiveness of the process and quality of collaborative environments.

Social-Emotional Learning Competencies

- Self-Awareness
- Self-Management
- Social Awareness
- Relationship Skills

https://www.nj.gov/education/safety/wellness/selearning/docs/SELCompetencies.pdf

Instructional Plan			
Pre-Assessment and Reflection			
Pre-Assessment	Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and Reflections		
<ul> <li>Student Survey - Students will indicate the level of experience they have with music production as well as their areas of interest.</li> <li>Introductory Activity - Students will demonstrate their prior knowledge of digital audio workstations as well as their ability to apply new skills.</li> </ul>	<ul> <li>Small group or paired assignments</li> <li>Additional time</li> <li>Pairing oral instruction with visuals</li> <li>Repeat directions</li> <li>Alternative assessment</li> <li><u>See additional modifications here.</u></li> </ul>		

\*\*\*Lessons in this unit (with the exception of Introduction to DAW) may be adjusted, edited, reordered, or omitted as needed to meet the needs and interests of the students and the time restraints of the course.

SLO – WALT We are learning to/that	Student Strategies	Formative Assessment	Activities and Resources	Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and Reflections
Introduction to DAW	Active listening using	Set up a project in the	In-class research	Advanced Students:
	guided presentations	DAW using the correct	activities	Limit time on each step
Apply the basic functions	Weekly listening (song	parameters	Teacher-created	of activity; extend
of a digital audio	analysis worksheet)	Collaborative	presentations	composition to full
workstation (DAW) to	Socratic questioning	composition	Interactive presentations	song structure
manipulate recorded	Complete simple tasks	Project support	Instructional videos	Special Education,
sound	with guided visual	worksheets	Hardware/technology	504, ELL: Extend time
	instruction	Project rubrics	videos and tutorials	on each step of
Produce music using a	Collaborative	Practice assignments	Musical DAWs: Students	activity; individual
modern framework,	composition	and mini projects	take turns adding	support
demonstrating how	Explore song structure	Question and answer	elements to create a	
music is structured	Guided instruction	sessions	song in a simple AB	See additional
around the different	Peer feedback	Observation of student	structure using loops	modifications here.
elements of a song	Individual and group	work	Midi keyboards and	
	projects	Quizzes	beginning piano	
Utilize basic keyboard	Mini projects and drills to	Peer/self-assessment	mini-lessons & exercises	
skills	reinforce knowledge	Exit tickets	Soundtrap Cheat Sheet	

SLO – WALT We are learning to/that	Student Strategies	Formative Assessment	Activities and Resources	Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and Reflections
	Introductory keyboard and primary chord exercises using small midi keyboards (Anticipatory sets) Class discussion of historical information, artists, music genres, and trends in the music industry Group discussion of classroom tasks		Video - From Phonographs to Spotify: A Brief History of the Music Industry <u>PBS Sound Field videos</u> <u>Incredibox</u> Learning Music (Ableton)	
The Science of Sound	Active listening by using	Intro to Acoustics	Video link library	Advanced Students:
Identify the physical properties and behavior of sound waves Describe how sound is perceived Consider the ways in which technology and the science of sound can be integrated into the human creative process	guided notes (example) to follow the presentation Intro to Acoustics (example) Weekly listening (song analysis worksheet) Socratic questioning Complete simple tasks with guided visual instruction Collaborative composition Explore song structure Guided instruction	Lesson Assessment Project - Use WD-1 DJ Trainer to compose and perform a beat and rap lyrics using information from the unit Collaborative composition Project support worksheets Project rubrics Practice assignments and mini projects Question and answer	Recommended Text and Projects - Alfred's Music Tech 101 Unit 1 <u>TeachRock Tech Tools -</u> <u>Sound Wave - Explore</u> synthesizer tones <u>Handout - Sound Waves</u> <u>Learning Music (Ableton)</u> <u>Building Beats Project</u> <u>Based Learning activities</u> <u>Additional Bandlab</u> <u>Projects</u> <u>PBS Sound Field videos</u> <u>Digital Music Innovations</u>	Limit time on each step of activity; extend compositions to full song structure Work independently or pair with another student to help them. Add additional elements to project (drum beat, bass line, etc.) <i>Special Education,</i> <i>504, ELL</i> : Extend time on each
Amazing Instruments	Peer feedback	sessions	projects	step of activity;
of Music Technology	Individual and group	Observation of student work	History of Technology in	individual support
Describe major	projects Mini projects and drills to	Quizzes	Music by Sarah Wallin-Huff	Work in pairs with additional teacher
innovations in music	reinforce knowledge	Peer/self-assessment	Listening/Analysis	support.
technology		Exit tickets	exercises (Great	

SLO – WALT We are learning to/that	Student Strategies	Formative Assessment	Activities and Resources	Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and Reflections
Describe the function of the machines of music technology, the recording formats, and their inventors Recognize and explain the difference between analog and digital sound <u>Evolution of Recording</u> <u>Mediums</u> Connect early forms of audio recording to modern innovations in music technology Identify how the advancements in music technology and societal/cultural norms and needs have affected one another Evaluate the effects of technology on history and culture Music can reflect broader cultural issues	Project based learning- Create composition independently or in pairs Reinforce knowledge by creating a rap with information from the unit Peer feedback Class discussion of historical information, artists, music genres, and trends in the music industry Group discussion of classroom tasks		resources - Digital Music Innovations, The Music Espionage) In-class research activities Teacher-created presentations Interactive presentations Instructional videos Hardware/technology videos	Advanced Students: <u>Supplemental project</u> (example) Special Education: <u>Alternate Project</u> (example) <u>Additional</u> <u>Modifications:</u> Additional time on assignments and assessments Pairing oral instruction with visuals Study guides Modified content Modified grading Reduce length of assignments and assessments Modify assessment format Preferential seating Copy of notes and presentations Other modifications as dictated in student's IEP/504 plan Provide models of completed assignments Student collaboration Additional/extra credit assignments

SLO – WALT We are learning to/that	Student Strategies	Formative Assessment	Activities and Resources	Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and Reflections
Multitracking redefined the possibilities of audio recording				
Trace musical expression to the specific historical and social context from which it emerged				

Benchmark Assessment	Modifications (ELL, Special Education, Gifted, At-risk of
	Failure, 504) and Reflections
DAW Basic Skills - Students will demonstrate their ability to use	- Additional time
the basic features of a DAW in a scavenger hunt format	<ul> <li>Provide samples of completed projects</li> </ul>
	- Student collaboration
	<ul> <li>Modify length of assessment</li> </ul>
	<ul> <li>Provide extension activities</li> </ul>
	<ul> <li>See additional modifications here.</li> </ul>

#### Benchmark Assessment 2

Benchmark Assessment	Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and Reflections
Students will use the DAW to create a commercial advertisement for a piece of music/recording technology from any time period	<ul> <li>Additional time</li> <li>Provide samples of completed projects</li> <li>Student collaboration</li> <li>Modify length of assessment</li> <li>Provide extension activities</li> <li><u>See additional modifications here.</u></li> </ul>

Summative Assessment	Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and Reflections
Cumulative Test	<ul> <li>Additional time</li> <li>Modify number of choices for multiple choice questions</li> <li>Provide study guide</li> <li>Provide copy of notes and presentations</li> <li>Modify length of assessment</li> <li>See additional modifications here.</li> </ul>
Interdisciplinary Connections	

Interdisciplinary Connections Interdisciplinary Connections	Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and Reflections
<ul> <li>Science: This curriculum examines acoustics, the transfer of energy as sound waves, and the various ways in which this energy is used in technology and communication.</li> <li>Social Sciences - This curriculum examines the development of music technology from a social and historical perspective, taking into consideration how technology met the needs of a changing society as well as how music technology shaped social interactions and societal norms.</li> <li>Technology: Using application software, system software, and hardware in artistic design. Analyze the implications of advancements in music technology and discuss controversial technological issues.</li> </ul>	See additional modifications here.

Unit 2: Music Recording, Production & Engineering

Grade level: 9-12 Timeframe: 4-5 Weeks

#### **Guiding Questions**

How do musicians generate creative ideas?

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How do musicians improve the quality of their creative work?

How do musicians make meaningful connections to creating, performing and responding?

How do individuals choose music to experience?

How does understanding the structure and context of music inform a response?

When is creative work ready to share?

How do other arts disciplines, contexts, and daily life inform creating, performing, and responding to music?

How does understanding the structure & context of musical works inform a performance?

How do individuals choose music to experience? How does understanding the structure and context of music inform a response?

How do we judge the quality of musical work(s) and performance(s)

How do performers interpret musical works?

# Standards

# Standards (Taught and Assessed)

1.3B.12prof.Cr1a: Describe how sounds and short musical ideas can be used to represent personal experiences, moods, visual images, and/or storylines.

1.3B.12prof.Cr2a: Assemble and organize sounds or short musical ideas to create initial expressions of selected experiences, moods, images or storylines.

1.3B.12prof.Cr2b: Identify and describe the development of sounds or short musical ideas in drafts of music within simple forms (e.g., one part, cyclical, binary).

1.3B.12prof.Cr3a: Identify, describe and apply teacher-provided criteria to assess and refine the technical and expressive aspects of evolving drafts leading to final versions.

1.3B.12prof.Cr3b: Share music through the use of notation, performance or technology, and demonstrate how the elements of music have been employed to realize expressive intent.

1.3B.12prof.Cn10a: Demonstrate how interests, knowledge and skills relate to personal choices and intent when creating, performing, and responding to music.

1.3B.12prof.Cn11a: Demonstrate understanding of relationships between music and the other arts, other disciplines, varied contexts, and daily life.

1.3E.12prof.Cr1a: Generate melodic, rhythmic and harmonic ideas for compositions or improvisations using digital tools.

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1.3E.12prof.Cr3b: Share compositions or improvisations that demonstrate musical and technological craftsmanship as well as the use of digital tools and resources in developing and organizing musical ideas.

1.3E.12prof.Re7a: Cite reasons for choosing music based on the use of the elements of music, digital and electronic aspects, and connections to interest or purpose.

1.3E.12prof.Re7b: Explain how knowledge of the structure (e.g., repetition, similarities, contrasts), technological aspects, and purpose of the music informs the response.

1.3E.12prof.Re8a: Explain and support an interpretation of the expressive intent of musical selections based on treatment of the elements of music, digital and electronic features, and purpose.

1.3E.12prof.Re9a: Evaluate music using criteria based on analysis, interpretation, digital and electronic features, and personal interests.

Highlighted Career Ready Practices and 21<sup>st</sup> Century Themes/Skills

- 9.3.12.AR.5 Describe the career opportunities and means to achieve those opportunities in each of the Arts, A/V Technology & Communications Career Pathways.
- 9.3.12.AR.6 Evaluate technological advancements and tools that are essential to occupations within the Arts, A/V Technology & Communications Career Cluster.
- 9.3.12.AR-AV.1 Describe the history, terminology, occupations and value of audio, video and film technology.
- 9.3.12.AR-AV.2 Demonstrate the use of basic tools and equipment used in audio, video and film production.
- 9.3.12.AR-AV.4 Design an audio, video and/or film production.
- 9.4.12.CI.1: Demonstrate the ability to reflect, analyze and use creative skills and ideas.
- 9.4.12.Cl.2: Identify career pathways that highlight personal talents, skills and abilities
- 9.4.12.CT.2: Explain the potential benefits of collaborating to enhance critical thinking and problem solving
- 9.4.12.TL.1: Assess digital tools based on features such as accessibility options, capacities and utility for accomplishing a specified task
- 9.4.12.TL.3: Analyze the effectiveness of the process and quality of collaborative environments.

Social-Emotional Learning Competencies

- Self-Awareness
- Self-Management
- Social Awareness
- Relationship Skills

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Instructional Plan			
Pre-Assessment and Reflection			
Pre-Assessment	Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and Reflections		
<ul> <li>Projects and assessments from previous unit</li> </ul>	<ul> <li>Small group or paired assignments</li> <li>Additional time</li> <li>Pairing oral instruction with visuals</li> <li>Repeat directions</li> <li>Alternative assessment</li> <li><u>See additional modifications here.</u></li> </ul>		

# Student Learning Objectives (SLO), Strategies, Formative Assessment, Activities and Resources (add rows as needed)

SLO – WALT We are learning to/that	Student Strategies	Formative Assessment	Activities and Resources	Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and Reflections
Listen, recognize, and	Active listening using	Practice assignments	In-class research	Walk-through video
recreate timbre	guided presentations	and mini projects	activities	guides
	Weekly listening (song	Question and answer	Teacher-created	Individualized
Change octaves,	analysis worksheet)	sessions	presentations	instructional support
velocity, reverb, and	Socratic questioning	Observation of student	Interactive presentations	Modified grading
synthesized sounds	Complete simple tasks	work	Instructional videos	Modified tasks
	with guided visual	Quizzes	Hardware/technology	Extension tasks
Tone color/timbre affects	instruction	Peer/self-assessment	videos and tutorials	Additional time on
how a sound is	Collaborative	Everything is a Remix	Bandlab Curriculum	assignments and
perceived	composition	<u>assessment</u>	Additional Bandlab	assessments
	Explore song structure	Drum Programming -	<u>Projects</u>	Pairing oral instruction
Recognize and apply	Guided instruction	program a drum pattern	Midi keyboards and	with visuals
popular song structure	Peer feedback	using given notation	beginning piano	Study guides
	Individual and group	Create short	mini-lessons & exercises	Reduce length of
Identify and incorporate	projects	compositions in the style	Soundtrap Cheat Sheet	assignments and
melodic and harmonic	Mini projects and drills to	of given artists/genres	Popular Song Structure	assessments
building blocks into	reinforce knowledge	(suggested resource -	presentation and	Modify assessment
larger works of music	Class discussion of	Bandlab Academy)	worksheet	format
	historical information,	Exit tickets	PBS Sound Field videos	Preferential seating

SLO – WALT We are learning to/that	Student Strategies	Formative Assessment	Activities and Resources	Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and Reflections
Map sounds, record and quantize multiple tracks Recognize and apply common chord progressions Recognize and create musical texture Program basic drum sequences Edit rhythms and utilize in-program virtual drum kits Create drum patterns from various genres Utilize musical knowledge and technological skills to create a remix Use a microphone to record a vocal track Manipulate recorded audio using digital signal processing and audio effects	artists, music genres, and trends in the music industry Group discussion of classroom tasks		Digital Music Innovations projects Incredibox Learning Music (Ableton) Lessons in Trap Music Building Beats Project Based Learning activities Listening/Analysis exercises (Great resources - Digital Music Innovations, The Music Espionage) - Identify elements as they are introduced in a song - Identify tempo - Identify rhythmic elements (syncopation, "four on the floor" style) Virtual drum kit Notate drum patterns using a grid Play drum patterns using the midi keyboard Leveled drum programming exercise Downloadable MIDI file stems Recommended Texts/Programs:	Copy of notes and presentations Provide models of completed assignments Other modifications as dictated in student's IEP/504 plan - See additional modifications here.

SLO – WALT We are learning to/that	Student Strategies	Formative Assessment	Activities and Resources	Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and Reflections
Edit recorded sound to			- Alfred's Music	
create an effective mix			Tech 101 - MusicEDU	
Describe the process of			- Digital Music	
setting up live sound equipment			Innovations - Soundtrap	
			- Bandlab	
Describe signal flow			- Building Beats	

Benchmark Assessment 1	

Benchmark Assessment	Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and Reflections
Project - Create a remix using sample packs from popular music	<ul> <li>Additional time</li> <li>Provide samples of completed projects</li> <li>Student collaboration</li> <li>Break project into smaller components</li> <li>Modify length of assessment</li> <li>Video guides</li> <li>Option to add extra element</li> <li><u>See additional modifications here.</u></li> </ul>

Benchmark Assessment	Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and Reflections
Project - Mix raw, multitrack stems	<ul> <li>Additional time</li> <li>Provide samples of completed projects</li> <li>Student collaboration</li> <li>Break project into smaller components</li> <li>Modify length of assessment</li> <li>Video guides</li> <li>Option to add extra element</li> <li><u>See additional modifications here.</u></li> </ul>

# Summative Assessments (add rows as needed)

Summative Assessment	Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and Reflections
Students will create an original composition using all of the basic features of a DAW including using and editing loops and samples, creating a MIDI track, using automation, FX, and arranging, and mixing. OR Choose from the library of Music Technology projects	<ul> <li>Additional time</li> <li>Provide samples of completed projects</li> <li>Student collaboration</li> <li>Break project into smaller components</li> <li>Modify length of assessment</li> <li>Video guides</li> <li>Option to add extra element</li> <li><u>See additional modifications here.</u></li> </ul>

# Interdisciplinary Connections

Interdisciplinary Connections	Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and Reflections
<ul> <li>Math: Use mathematical concepts to determine and create patterns and rhythm</li> <li>Social Sciences: Identify compositional techniques used in different styles and genres of music vary according to prescribed sets of rules. Identify stylistic considerations that vary across genres, cultures, and historical eras. Examine the development of music technology from a social and historical perspective, taking into consideration how technology met the needs of a changing society as well as how music technology shaped social interactions and societal norms.</li> <li>Technology: Using application software, system software, and hardware in artistic design. Analyze the implications of advancements in music technology and discuss controversial technological issues.</li> </ul>	- See additional modifications here.

#### **Music Technology and Applications**

Unit 3: Culture, Sound Design, & Synthesis

Grade level: 9-12 Timeframe: 6-8 Weeks

#### **Guiding Questions**

How do musicians generate creative ideas?

How do musicians make creative decisions?

How do musicians improve the quality of their creative work?

How do musicians make meaningful connections to creating, performing and responding?

How do individuals choose music to experience?

How does understanding the structure and context of music inform a response?

When is creative work ready to share?

How do other arts disciplines, contexts, and daily life inform creating, performing, and responding to music?

How does understanding the structure & context of musical works inform a performance?

How do individuals choose music to experience? How does understanding the structure and context of music inform a response?

How do we judge the quality of musical work(s) and performance(s)

How do performers interpret musical works?

#### Standards

#### Standards (Taught and Assessed)

1.3B.12prof.Cr1a: Describe how sounds and short musical ideas can be used to represent personal experiences, moods, visual images, and/or storylines.

1.3B.12prof.Cr2a: Assemble and organize sounds or short musical ideas to create initial expressions of selected experiences, moods, images or storylines.

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1.3B.12prof.Cr3a: Identify, describe and apply teacher-provided criteria to assess and refine the technical and expressive aspects of evolving drafts leading to final versions.

1.3B.12prof.Cr3b: Share music through the use of notation, performance or technology, and demonstrate how the elements of music have been employed to realize expressive intent.

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1.3E.12prof.Cr1a: Generate melodic, rhythmic and harmonic ideas for compositions or improvisations using digital tools.

1.3E.12prof.Cr2a: Select melodic, rhythmic and harmonic ideas to develop into a larger work using digital tools and resources.

1.3E.12prof.Cr3a: Drawing on feedback from teachers and peers, develop and implement strategies to improve and refine the technical and expressive aspects of draft compositions and improvisations.

1.3E.12prof.Cr3b: Share compositions or improvisations that demonstrate musical and technological craftsmanship as well as the use of digital tools and resources in developing and organizing musical ideas.

1.3E.12prof.Re7a: Cite reasons for choosing music based on the use of the elements of music, digital and electronic aspects, and connections to interest or purpose.

1.3E.12prof.Re7b: Explain how knowledge of the structure (e.g., repetition, similarities, contrasts), technological aspects, and purpose of the music informs the response.

1.3E.12prof.Re8a: Explain and support an interpretation of the expressive intent of musical selections based on treatment of the elements of music, digital and electronic features, and purpose.

1.3E.12prof.Re9a: Evaluate music using criteria based on analysis, interpretation, digital and electronic features, and personal interests.

Highlighted Career Ready Practices and 21<sup>st</sup> Century Themes/Skills

- 9.3.12.AR.4 Analyze the legal and ethical responsibilities required in the arts, audio/visual technology and communications workplace.
- 9.3.12.AR.5 Describe the career opportunities and means to achieve those opportunities in each of the Arts, A/V Technology & Communications Career Pathways.
- 9.3.12.AR.6 Evaluate technological advancements and tools that are essential to occupations within the Arts, A/V Technology & Communications Career Cluster.
- 9.3.12.AR-AV.1 Describe the history, terminology, occupations and value of audio, video and film technology.
- 9.3.12.AR-AV.2 Demonstrate the use of basic tools and equipment used in audio, video and film production.
- 9.3.12.AR-AV.4 Design an audio, video and/or film production.
- 9.3.12.BM.5 Implement systems, strategies and techniques used to manage information in a business.
- 9.3.MK.2 Implement marketing research to obtain and evaluate information for the creation of a marketing plan.
- 9.3.MK.9 Communicate information about products, services, images and/or ideas to achieve a desired outcome.
- 9.3.MK-COM.1 Apply techniques and strategies to convey ideas and information through marketing communications.
- 9.4.12.Cl.1: Demonstrate the ability to reflect, analyze and use creative skills and ideas.
- 9.4.12.Cl.2: Identify career pathways that highlight personal talents, skills and abilities
- 9.4.12.CT.2: Explain the potential benefits of collaborating to enhance critical thinking and problem solving
- 9.4.12.TL.1: Assess digital tools based on features such as accessibility options, capacities and utility for accomplishing a specified task
- 9.4.12.TL.3: Analyze the effectiveness of the process and quality of collaborative environments.
- 9.4.12.Cl.2: Identify career pathways that highlight personal talents, skills, and abilities

- 9.4.12.CT.1: Identify problem-solving strategies used in the development of an innovative product or practice
- 9.4.12.DC.1: Explain the beneficial and harmful effects that intellectual property laws can have on the creation and sharing of content
- 9.4.12.DC.6: Select information to post online that positively impacts personal image and future college and career opportunities.

Social-Emotional Learning Competencies

- Self-Awareness
- Self-Management
- Social Awareness
- Relationship Skills

#### https://www.nj.gov/education/safety/wellness/selearning/docs/SELCompetencies.pdf

#### Instructional Plan

### **Pre-Assessment and Reflection**

Pre-Assessment	Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and Reflections
<ul> <li>Projects and assessments from previous unit</li> </ul>	<ul> <li>Small group or paired assignments</li> <li>Additional time</li> <li>Pairing oral instruction with visuals</li> <li>Repeat directions</li> <li>Alternative assessment</li> <li><u>See additional modifications here.</u></li> </ul>

#### Student Learning Objectives (SLO), Strategies, Formative Assessment, Activities and Resources (add rows as needed)

SLO – WALT We are learning to/that	Student Strategies	Formative Assessment	Activities and Resources	Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and Reflections
<u>The Technology of</u>	Active listening using	Practice assignments	In-class research	Walk-through video
<u>Rock &amp; Roll</u>	guided presentations	and mini projects	activities	guides
	Weekly listening (song	Question and answer	Teacher-created	Individualized
Describe the	analysis worksheet)	sessions	presentations	instructional support
development of the	Socratic questioning	Observation of student	Interactive presentations	Modified grading
electric guitar and its		work	Instructional videos	Modified tasks
importance as the		Quizzes		Extension tasks

SLO – WALT We are learning to/that	Student Strategies	Formative Assessment	Activities and Resources	Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and Reflections
<ul> <li>primary instrument for rock and roll</li> <li>Describe how effect pedals are used</li> <li>Identify new music genres that were born from rock and roll</li> <li><u>The Technology of Hip Hop</u></li> <li>Define hip hop as a culture</li> <li>Identify the pillars of hip hop</li> <li>Describe the evolution of hip hop, from turntables to drum machines, synthesizers, samplers, DAWs, and effects processors</li> <li>Identify political and social factors that influenced the rise of hip hop</li> </ul>	Complete simple tasks with guided visual instruction Collaborative composition Explore song structure Guided instruction Peer feedback Individual and group projects Mini projects and drills to reinforce knowledge Class discussion of historical information, artists, music genres, and trends in the music industry Group discussion of classroom tasks.	Peer/self-assessment Exit tickets Written responses	Hardware/technology videos and tutorials documentary clips <u>Bandlab Curriculum</u> <u>Additional Bandlab</u> <u>Projects</u> <u>PBS Sound Field videos</u> <u>Digital Music Innovations</u> <u>projects</u> <u>Lessons in Trap Music</u> <u>Building Beats Project</u> <u>Based Learning activities</u> <u>WhoSampled</u> Soundless film clips and trailers Video game clips Video game composer online Copyright court cases Listening/Analysis exercises (Great resources - Digital Music Innovations, The Music Espionage) - Identify elements as they are introduced in a song - Identify tempo - Identify rhythmic elements (syncopation,	Additional time on assignments and assessments Pairing oral instruction with visuals Study guides Reduce length of assignments and assessments Modify assessment format Preferential seating Copy of notes and presentations Provide models of completed assignments Other modifications as dictated in student's IEP/504 plan - See additional modifications here.

SLO – WALT We are learning to/that	Student Strategies	Formative Assessment	Activities and Resources	Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and Reflections
Describe how hip hop influenced mainstream music Analyze the use of hip hop as a vehicle to educate listeners about social and political issues Understand how sampling has affected the evolution of music genres and the diversification of listener bases Demonstrate the use of sampling in music production <u>Electronic House</u> <u>Music (EDM)</u> Describe the social factors that lead to the development of EDM Demonstrate the use of common EDM sounds and song structure <u>Music in Film</u>			"four on the floor" style) History of Technology in Music by Sarah Wallin-Huff Other Recommended Texts/Programs: - Alfred's Music Tech 101 - MusicEDU - Digital Music Innovations - Soundtrap - Bandlab - Building Beats	

SLO – WALT We are learning to/that	Student Strategies	Formative Assessment	Activities and Resources	Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and Reflections
Identify the difference between diagetic and non-diagetic sound				
Describe the emotional and psychological effect of music in film				
Understand how music helps to tell a story				
Identify the various roles and responsibilities of the creative team in film music production				
Describe the use of musical motifs and character themes (leitmotifs)				
Demonstrate the use of foley and sound effects				
Describe parallel and contrapuntal sound in film <u>Sound Design in Video</u> <u>Games</u>				
Examine how different genres shape and define				

SLO – WALT We are learning to/that	Student Strategies	Formative Assessment	Activities and Resources	Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and Reflections
the sonic experiences within modern video games.				
Compose evocative soundtracks that immerse players in game play				
Understand how music and sound have been an exceptionally important aspect of video game design and development				
Demonstrate how sounds are manipulated to represent visual actions				
Copyright and Fair Use				
Understand copyright laws as they relate to the use of music				
Research court cases and debate court decisions regarding copyright laws				

SLO – WALT We are learning to/that	Student Strategies	Formative Assessment	Activities and Resources	Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and Reflections
<u>3.7 - The Music</u> Industry & Creating a Record Label				
Identify the various roles and pay in the music industry				
Understand how a song makes money				
Identify and analyze the various sources of revenue for recording artists				
Understand how a recording artist presents and markets themself Demonstrate brand marketing				
Analyze what makes a song a hit and produce a marketable song				

Benchmark Assessment	Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and Reflections
Sampling (project) - Students will use curated and created samples in an original composition	<ul> <li>Additional time</li> <li>Provide samples of completed projects</li> <li>Student collaboration</li> <li>Break project into smaller components</li> <li>Modify length of assessment</li> <li>Video guides</li> <li>Option to add extra element</li> <li><u>See additional modifications here.</u></li> </ul>

# Benchmark Assessment 2

Benchmark Assessment	Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and Reflections
Film Music (project) - Students will create an original score to accompany a film clip or trailer	<ul> <li>Additional time</li> <li>Provide samples of completed projects</li> <li>Student collaboration</li> <li>Break project into smaller components</li> <li>Modify length of assessment</li> <li>Video guides</li> <li>Option to add extra element</li> <li><u>See additional modifications here.</u></li> </ul>

#### Summative Assessments (add rows as needed)

Summative Assessment	Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and Reflections
Students will create their own fictional record label. This project includes a marketing strategy, artist press kit, social media posts, concert planning, and projected revenue. Additionally, students will create a "hit" song.	<ul> <li>Additional time</li> <li>Provide samples of completed projects</li> <li>Student collaboration</li> <li>Break project into smaller components</li> <li>Modify length of assessment</li> <li>Video guides</li> <li>Option to add extra element</li> <li><u>See additional modifications here.</u></li> </ul>

terdisciplinary Connections	Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and Reflections
<ul> <li>Math: Use mathematical concepts to determine and create patterns and rhythm</li> <li>Social Sciences: Identify compositional techniques used in different styles and genres of music vary according to prescribed sets of rules. Identify stylistic considerations that vary across genres, cultures, and historical eras. Examine the development of music technology from a social and historical perspective, taking into consideration how technology met the needs of a changing society as well as how music technology shaped social interactions and societal norms.</li> <li>Technology: Using application software, system software, and hardware in artistic design. Analyze the implications of advancements in music technology and discuss controversial technological issues.</li> <li>Business and Marketing: Use recorded music, performance, and technology as a backdrop to explore brand marketing, business management, and generation of revenue.</li> <li>Law and Political Science: Explore laws and the court system through cases involving music copyright and fair use.</li> </ul>	- See additional modifications here.

Unit Optional: DJ Skills and Performance (optional unit) Grade level: 9-12

Timeframe: 4-5 Weeks

**Guiding Questions** 

How do musicians generate creative ideas?

How do musicians make creative decisions?

How do musicians improve the quality of their creative work?

How do performers select repertoire?

How do musicians improve the quality of their performance?

When is a performer judged ready to present?

How do context and the manner in which musical work is presented influence audience response?

How do musicians make meaningful connections to creating, performing and responding?

How do the other arts, other disciplines, contexts, and daily life inform creating, performing and responding to music?

When is creative work ready to share?

How does understanding the structure & context of musical works inform a performance?

How do individuals choose music to experience?

How does understanding the structure and context of music inform a response?

How do we judge the quality of musical work(s) and performance(s)

#### Standards

# Standards (Taught and Assessed)

1.3B.12prof.Cr1a: Describe how sounds and short musical ideas can be used to represent personal experiences, moods, visual images, and/or storylines.

1.3B.12prof.Cr2a: Assemble and organize sounds or short musical ideas to create initial expressions of selected experiences, moods, images or storylines.

1.3B.12prof.Cr2b: Identify and describe the development of sounds or short musical ideas in drafts of music within simple forms (e.g., one part, cyclical, binary).

1.3B.12prof.Cr3a: Identify, describe and apply teacher-provided criteria to assess and refine the technical and expressive aspects of evolving drafts leading to final versions.

1.3B.12prof.Cr3b: Share music through the use of notation, performance or technology, and demonstrate how the elements of music have been employed to realize expressive intent.

1.3B.12prof.Cn10a: Demonstrate how interests, knowledge and skills relate to personal choices and intent when creating, performing, and responding to music.

1.3B.12prof.Cn11a: Demonstrate understanding of relationships between music and the other arts, other disciplines, varied contexts, and daily life.

1.3E.12prof.Cr1a: Generate melodic, rhythmic and harmonic ideas for compositions or improvisations using digital tools.

1.3E.12prof.Cr2a: Select melodic, rhythmic and harmonic ideas to develop into a larger work using digital tools and resources.

1.3E.12prof.Cr3a: Drawing on feedback from teachers and peers, develop and implement strategies to improve and refine the technical and expressive aspects of draft compositions and improvisations.

1.3E.12prof.Cr3b: Share compositions or improvisations that demonstrate musical and technological craftsmanship as well as the use of digital tools and resources in developing and organizing musical ideas.

1.3E.12prof.Re7a: Cite reasons for choosing music based on the use of the elements of music, digital and electronic aspects, and connections to interest or purpose.

1.3E.12prof.Re7b: Explain how knowledge of the structure (e.g., repetition, similarities, contrasts), technological aspects, and purpose of the music informs the response.

1.3E.12prof.Re8a: Explain and support an interpretation of the expressive intent of musical selections based on treatment of the elements of music, digital and electronic features, and purpose.

1.3E.12prof.Re9a: Evaluate music using criteria based on analysis, interpretation, digital and electronic features, and personal interests.

Highlighted Career Ready Practices and 21<sup>st</sup> Century Themes/Skills

- 9.4.12.Cl.1: Demonstrate the ability to reflect, analyze and use creative skills and ideas.
- 9.4.12.CI.2: Identify career pathways that highlight personal talents, skills and abilities
- 9.4.12.CT.2: Explain the potential benefits of collaborating to enhance critical thinking and problem solving
- 9.4.12.TL.1: Assess digital tools based on features such as accessibility options, capacities and utility for accomplishing a specified task
- 9.4.12.TL.3: Analyze the effectiveness of the process and quality of collaborative environments.

Social-Emotional Learning Competencies

- Self-Awareness
- Self-Management
- Social Awareness
- Relationship Skills

https://www.nj.gov/education/safety/wellness/selearning/docs/SELCompetencies.pdf

Instructional Plan		
Pre-Assessment and Reflection		
Pre-Assessment	Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and Reflections	
<ul> <li>Projects and assessments from previous unit</li> </ul>	<ul> <li>Small group or paired assignments</li> <li>Additional time</li> <li>Pairing oral instruction with visuals</li> <li>Repeat directions</li> <li>Alternative assessment</li> <li><u>See additional modifications here.</u></li> </ul>	

# Student Learning Objectives (SLO), Strategies, Formative Assessment, Activities and Resources (add rows as needed)

SLO – WALT We are learning to/that	Student Strategies	Formative Assessment	Activities and Resources	Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and Reflections
Set up DJ Gear	Class discussion of	Skill assessment	Building Beats Project	Walk-through video
(controller, software,	historical information,	drills	Based Learning activities	guides
speakers, headphones)	artists, music genres,	Project support	MusicEDU program	Individualized
	and trends in the music	worksheets	DJ Spotlights	instructional support
Navigate DJ app software	industry	Project rubrics	Interactive presentations	Modified grading
and computer software	Group discussion of	Practice	Instructional videos	Modified tasks
	classroom tasks	assignments and	Hardware/technology videos	Extension tasks
Navigate and experiment	Step-by-step	mini projects	DJ Controller hardware	Additional time on
with controller features	independent	Question and	and/or software	assignments and
and functions	performance tasks	answer sessions	Class discussion of the	assessments
Perform drums parts	Socratic questioning	Observation of	history of DJ culture and the	Pairing oral instruction
(kick, snare, hi-hat)	Guided visual	student work	evolution of hardware	with visuals
	instruction	Quizzes	Listening/Analysis exercises	Study guides
Create a cue point	Peer feedback	Peer/self-assessmen	(Great resources - Digital	Reduce length of
	Individual and group	t	Music Innovations, The	assignments and
Beat-match with identical	projects	Exit tickets	Music Espionage)	assessments
tracks	Mini projects and drills		In-class research activities	Modify assessment
	to reinforce knowledge		Extension Activities:	format
Mix using song structure	Student reflections			Preferential seating

Beat-match different tracks with the same BPM- Using the cross-fader and volume faders in performanceCopy of notes and presentationsBeat-match tracks with varying BPM- Using the cue points to beat-match during a performance- Using DAW software to create a unique track- Other models of completedUse scratching and backspin technique- Backspinning battle - Using the auto-loop feature as a add special effects to music- See additional modificationsUse auto looping- Using provided DJ tracks to create a there-track set demonstrating transitions- See additional modificationsUnderstand filters and how to use them- Alfred's Music Tech 101-Record a mix- Alfred's Music Tech Innovations-Record a mix- Soundtrap transitions-Record a mix- Soundtrap tenhance-Anthu advagande- Soundtrap tenhance-Anthu advagand- Soundtrap tenhance-Anthu advagand- Soundtrap tenhance-	SLO – WALT We are learning to/that	Student Strategies	Formative Assessment	Activities and Resources	Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and Reflections
transitions and skills	tracks with the same BPM Beat-match tracks with varying BPM Use scratching and backspin technique Use sampler pads and add special effects to music Use auto looping Utilize special effect parameters Understand filters and how to use them Record a mix Record samples to enhance DJ performance Apply advanced			<ul> <li>and volume faders in performance</li> <li>Using the cue points to beat-match during a performance</li> <li>Using DAW software to create a unique track</li> <li>Backspinning battle</li> <li>Using the auto-loop feature as a performance technique</li> <li>Using provided DJ tracks to create a three-track set demonstrating transitions</li> <li>Recommended</li> <li>Texts/Programs: <ul> <li>Alfred's Music Tech 101</li> <li>MusicEDU</li> <li>Digital Music Innovations</li> <li>Soundtrap</li> </ul> </li> </ul>	Copy of notes and presentations Provide models of completed assignments Other modifications as dictated in student's IEP/504 plan - <u>See additional</u> <u>modifications</u>

Benchmark Assessment	Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and Reflections
Performance task - Beatmatching	<ul> <li>Additional time</li> <li>Provide samples of completed projects</li> <li>Student collaboration</li> <li>Break project into smaller components</li> <li>Modify length of assessment</li> <li>Provide extension activities</li> <li><u>See additional modifications here.</u></li> </ul>

# **Benchmark Assessment 2**

Benchmark Assessment	Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and Reflections
Performance task - Making a mix	<ul> <li>Additional time</li> <li>Provide samples of completed projects</li> <li>Student collaboration</li> <li>Break project into smaller components</li> <li>Modify length of assessment</li> <li>Provide extension activities</li> <li><u>See additional modifications here.</u></li> </ul>

## Summative Assessments (add rows as needed)

Summative Assessment	Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and Reflections
Cumulative Quiz Final Performance task - Demonstrate advanced transitions and skills	<ul> <li>Additional time</li> <li>Modify number of choices for multiple choice questions</li> <li>Provide study guide</li> <li>Provide copy of notes and presentations</li> <li>Modify length of assessment</li> <li>See additional modifications here.</li> </ul>

# Interdisciplinary Connections

Interdisciplinary Connections	Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and Reflections
<ul> <li>Science: This curriculum examines acoustics, the transfer of energy as sound waves, and the various ways in which this energy is used in technology and communication.</li> <li>Social Sciences - This curriculum examines the development of music technology from a social and historical perspective, taking into consideration how technology met the needs of a changing society as well as how music technology shaped social interactions and societal norms.</li> </ul>	- <u>See additional modifications here.</u>