

Unit 1 - Brief Overview of Recorded Sound

Content Area: **Fine and Performing Arts**
Course(s): **Music Tech**
Time Period: **September**
Length: **7 Days**
Status: **Published**

Unit Overview

Students will be introduced to the basics of sound production and its properties. Through demonstration students will identify the nature and behavior of sound, the mechanics of sound reproduction, and describe how sound may be transmitted via mechanical and electronic means. Students will compare and contrast various methods of sound transmission used in common modern consumer electronics, and explore history of recorded sound.

Enduring Understandings

- It is important for students to be able to identify and describe the various ways in which sound has been transmitted throughout history.
- With advances in technology have come legal/ethical issues surrounding how users access music today.

Essential Questions

- Can we predict how access to recorded content will change in the future?
- How can understanding antiquated technology and delivery systems be useful in predicting future trends; how does this affect creative choices now?
- How has the production of sound evolved over time?
- How have advances in technology led to the creation of new recording media?
- What are the legal/ethical rights and responsibilities associated with the creation, production, and obtaining of music?

Standards/Indicators/Student Learning Objectives (SLOs)

MU.9-12.1.3B.12adv.Cn11	Relating artistic ideas and works within societal, cultural and historical contexts to deepen understanding.
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Performance Expectations

MU.9-12.1.3B.12adv.Cn11a	Demonstrate understanding of relationships between music and the other arts, other disciplines, varied contexts, and daily life.
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Lesson Titles

- Copyright - Students will learn how copyright laws protect composers, lyricists, and performers.
- Sound Transmission - Students will learn how sound waves are formed and perceived by the human ear.
- Technology Advances - Students will learn how the invention of the phonograph sparked new forms of music technology.
- The Future - Students will learn how the possibilities are endless in new types of technology.

Career Readiness, Life Literacies, & Key Skills

TECH.9.4.12.CI.1	Demonstrate the ability to reflect, analyze, and use creative skills and ideas (e.g., 1.1.12prof.CR3a).
TECH.9.4.12.CI.2	Identify career pathways that highlight personal talents, skills, and abilities (e.g., 1.4.12prof.CR2b, 2.2.12.LF.8).
TECH.9.4.12.CI.3	Investigate new challenges and opportunities for personal growth, advancement, and transition (e.g., 2.1.12.PGD.1).

Inter-Disciplinary Connections

LA.9-12.3.3	All students will speak in clear, concise, organized language that varies in content and form for different audiences and purposes.
LA.9-12.3.5	All students will access, view, evaluate, and respond to print, nonprint, and electronic text and resources.
SOC.9-12.6.2.12	All students will acquire the knowledge and skills to think analytically and systematically about how past interactions of people, cultures, and the environment affect issues across time and cultures. Such knowledge and skills enable students to make informed decisions as socially and ethically responsible world citizens in the 21st century.
TEC.9-12.8.2.12	All students will develop an understanding of the nature and impact of technology, engineering, technological design and the designed world as they relate to the individual, global society, and the environment.

Equity Considerations

LGBTQ and Disabilities Mandate

Topic: LGBT representation in music

Materials Used: <https://www.billboard.com/music/music-news/lgbtq-representation-music-industry-1235007091/>

Addresses the Following Component of the Mandate:

- Economic
- Political
- Social

Asian American Pacific Islander Mandate

Topic: Music of Asian America

Materials Used:

<https://asianamericanmusic.org/encyclopedia/#:~:text=A%20number%20of%20extremely%20successful,to%20all%20kinds%20of%20music.>

Addresses the Following Component of the Mandate:

- Economic
- Political
- Social

Climate Change

Topic: Songs about climate change

Materials Used: <https://www.nature.org/en-us/what-we-do/our-priorities/tackle-climate-change/climate-change-stories/climate-change-songs/>

Addresses the Following Component of the Mandate:

- Economic
- Political

- Social

Holocaust Mandate

Topic: Racism in music industry

Materials Used: <https://www.rollingstone.com/music/music-features/music-industry-racism-1010001/>

Addresses the Following Component of the Mandate:

- Bias
- Bigotry
- Bullying
- Holocaust studies
- Prejudice

Instructional Strategies, Learning Activities, and Levels of Blooms/DOK

- Classwork
- Copyright Investigation
- Critiquing
- Demonstration on Sound Producing Devices
- Listening Journal

Modifications

- Determine where students' interests lie and capitalize on their inquisitiveness.
- Employ differentiated instruction to keep interest & success high.
- Encourage students to explore concepts in depth and encourage independent studies or investigations.
- Give direction orally.
- Invite students to explore different points of view on a topic of study and compare the two.

ELL Modifications

- Choice of test format (multiple-choice, essay, true-false)

- Continue practicing vocabulary
- Provide study guides prior to tests
- Read directions to the student
- Read test passages aloud (for comprehension assessment)
- Vary test formats

IEP & 504 Modifications

- Allow for redos/retakes
- Assign fewer problems at one time (e.g., assign only odds or evens)
- Differentiated center-based small group instruction
- Extra time on assessments
- Highlight key directions
- If a manipulative is used during instruction, allow its use on a test
- Opportunities for cooperative partner work
- Provide reteach pages if necessary
- Provide several ways to solve a problem if possible
- Provide visual aids and anchor charts
- Test in alternative site
- Tiered lessons and assignments
- Use of a graphic organizer
- Use of concrete materials and objects (manipulatives)
- Use of word processor

G & T Modifications

- Alternate assignments/enrichment assignments
- Enrichment projects
- Extension activities
- Higher-level cooperative learning activities
- Pairing direct instruction with coaching to promote self-directed learning
- Provide higher-order questioning and discussion opportunities
- Provide texts at a higher reading level
- Tiered assignments
- Tiered centers

At Risk Modifications

- Additional time for assignments
- Adjusted assignment timelines
- Agenda book and checklists
- Answers to be dictated
- Assistance in maintaining uncluttered space
- Books on tape
- Concrete examples
- Extra visual and verbal cues and prompts
- Follow a routine/schedule
- Graphic organizers
- Have students restate information
- No penalty for spelling errors or sloppy handwriting
- Peer or scribe note-taking
- Personalized examples
- Preferential seating
- Provision of notes or outlines
- Reduction of distractions
- Review of directions
- Review sessions
- Space for movement or breaks
- Support auditory presentations with visuals
- Teach time management skills
- Use of a study carrel
- Use of mnemonics
- Varied reinforcement procedures
- Work in progress check

Formative Assessment

- Anticipatory Set: Question of the Day
- Closure: 3-2-1, Exit Card, Sum It Up, Ticket Out The Door
- Homework
- Individual Feedback
- Warm-Up: Daily Listening Journal

Summative Assessment

- Copyright Quiz
- Marking Period Assessment

- Recorded Sound History Quiz

Alternative Assessments

Performance tasks

Project-based assignments

Problem-based assignments

Presentations

Reflective pieces

Concept maps

Case-based scenarios

Portfolios

Benchmark Assessments

Skills-based assessment

Reading response

Writing prompt

Lab practical

Resources & Materials

- Behringer C-1 Condenser Microphone
- M-Audio KeyRig 49
- M-Audio Mobile Pre

Technology

- GarageBand
- iMovie
- iPhoto
- iTunes

- Promethean Board

TECH.8.1.12

Educational Technology: All students will use digital tools to access, manage, evaluate, and synthesize information in order to solve problems individually and collaborate and to create and communicate knowledge.

TECH.8.1.12.B.CS2

Create original works as a means of personal or group expression.

TECH.8.1.12.C.CS1

Interact, collaborate, and publish with peers, experts, or others by employing a variety of digital environments and media.

TECH.8.1.12.C.CS2

Communicate information and ideas to multiple audiences using a variety of media and formats.