Unit 1B: History of Audio Production Copied from: Art Behind the Music, Copied on: 02/21/22

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Belleville Public Schools

Curriculum Guide

Art Behind the Music, GRADES 11 & 12

UNIT 1B: HISTORY OF AUDIO PRODUCTION

Belleville Board of Education

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Unit Overview

Unit one will be a brief overview of the history of audio production: historical media, multitracking, effects, and the advent of digital recording.

History of Audio Production:

- This unit will briefly introduce the students to the history of audio production and its relevance to modern recording techniques.
- Various media (wax cylinders, tape, digital)
- Advent of multitrack recording
- The students will understand how the history of audio production still applies to today's techniques, regardless of medium.

Enduring Understanding

- History of audio production media and methods are important knowledge to an audio production engineer as a basic foundation upon which to apply future knowledge.
- How application of historical techniques still apply to contemporary recording, regardless of medium.
- Knowledge of the history will aid the students to be better audio production engineers.

- It is important to have knowledge of the history of audio production for students to better understand how the music and other audio they consume was produced.

Essential Questions

- Why is the history of audio production important?
- How will knowing the history of audio production help me be a better audio production engineer?
- How does knowledge of the history of audio production help me be more creative?
- How can this knowledge help me in my life outside of the classroom?
- How does the knowledge of audio production history aid me in understanding the music and audio I consume?

Exit Skills

By the end of Unit One:

- All students will demonstrate an understanding of the history of audio production by:
    - Taking a quiz on the history of audio production where they name different methods and historical figures.
    - Write a brief essay on the importance of the knowledge of history upon which current methodologies.
    - The students will have some sort of understanding of how to produce audio once entering the studio environment.

New Jersey Student Learning Standards (NJSLS-S)

CS	Computing Systems
	Individuals use computing devices to perform a variety of tasks accurately and quickly. Computing devices interpret and follow the instructions they are given literally.
1.3C.12nov.Cr1a	Compose and improvise ideas and motives for melodies and rhythmic passages based on characteristic(s) of music or text(s) studied in rehearsal.
1.3C.12nov.Pr4	Selecting, analyzing and interpreting work.
	Select, Analyze, Interpret
1.3C.12nov.Pr4c	Identify expressive qualities in a varied repertoire of music that can be demonstrated through prepared and improvised performances.
1.3C.12nov.Pr6	Conveying meaning through art.
1.3C.12nov.Re	Responding
1.3C.12nov.Re7	Perceiving and analyzing products.

9.4.12.IML.6	Use various types of media to produce and store information on climate change for different purposes and audiences with sensitivity to cultural, gender, and age diversity (e.g., NJSLSA.SL5).
	Select, Analyze
1.3C.12nov.Re8	Interpreting intent and meaning.
	Interpret
1.3C.12nov.Cn10a	Demonstrate understanding of relationships between music and the other arts, other disciplines, varied contexts, and daily life.
1.3C.12nov.Cn11	Relating artistic ideas and works within societal, cultural, and historical contexts to deepen understanding.
	Interconnection
1.3C.12nov.Cn11a	Demonstrate understanding of relationships between music and the other arts, other disciplines, varied contexts, and daily life.

Interdisciplinary Connections

LA.WHST.9-10.2	Write informative/explanatory texts, including the narration of historical events, scientific procedures/experiments, or technical processes.
LA.WHST.9-10.4	Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience.
LA.WHST.9-10.6	Use technology, including the Internet, to produce, share, and update writing products, taking advantage of technology's capacity to link to other information and to display information flexibly and dynamically.
SOC.9-12.1.1.1	Compare present and past events to evaluate the consequences of past decisions and to apply lessons learned.
SOC.9-12.1.2.2	Relate current events to the physical and human characteristics of places and regions.
SOC.9-12.1.3.3	Gather relevant information from multiple sources representing a wide range of views (including historians and experts) while using the date, context, and corroborative value of the sources to guide the selection.
SOC.9-12.1.4.2	Demonstrate effective presentation skills by presenting information in a clear, concise, and well-organized manner taking into consider appropriate use of language for task and audience.

Learning Objectives

After completing the history of audio production the students will be able to:

Identify pertinent historical figures in audio production engineering.

Give examples of various production techniques and technologies.

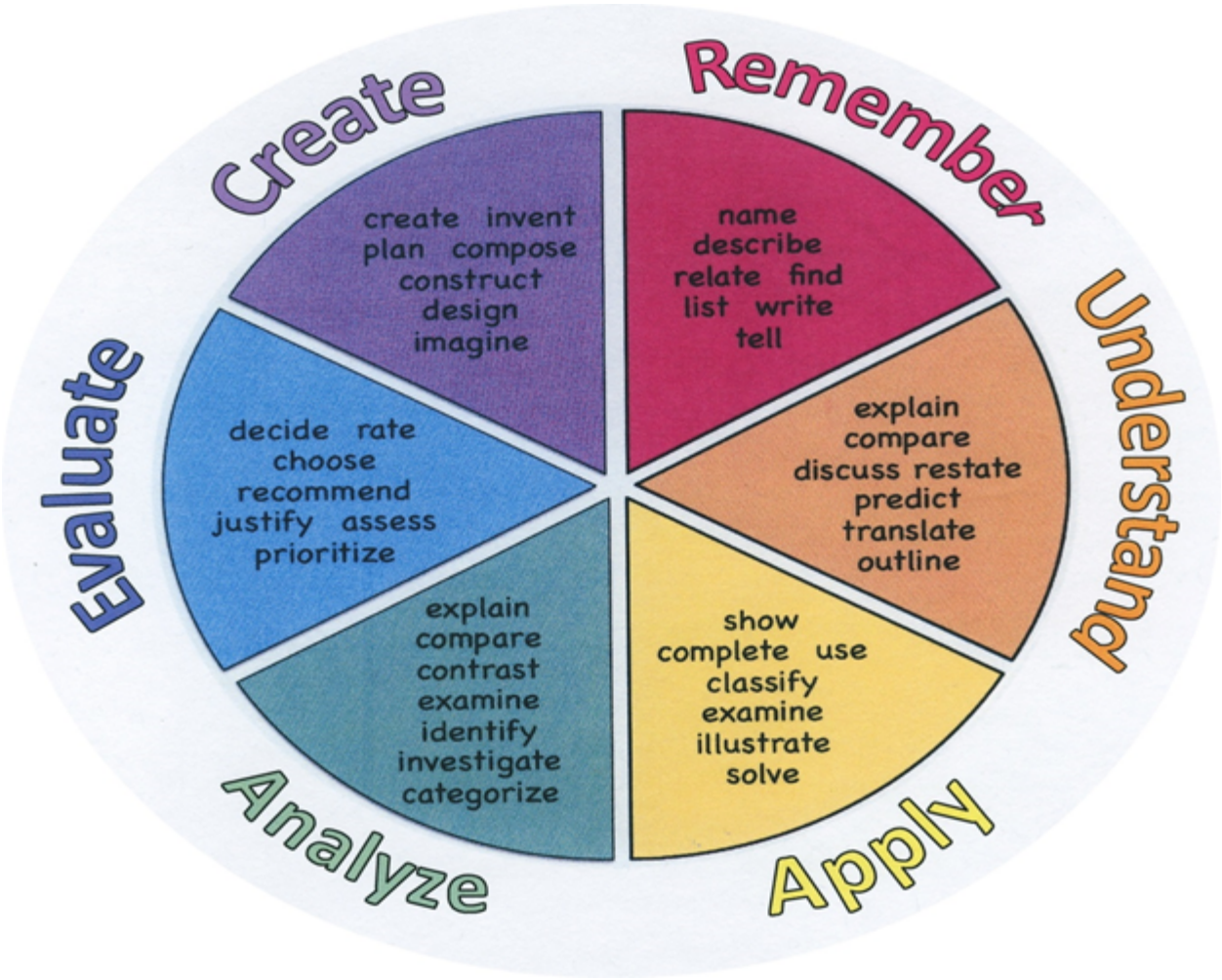
Assess how the history of audio production affects contemporary works.

Analyze audio and understand methods that were used.

Identify technologies and methods in a modern studio environment.

Action Verbs: Below are examples of action verbs associated with each level of the Revised Bloom's Taxonomy.

Remember	Understand	Apply	Analyze	Evaluate	Create
Choose	Classify	Choose	Categorize	Appraise	Combine
Describe	Defend	Dramatize	Classify	Judge	Compose
Define	Demonstrate	Explain	Compare	Criticize	Construct
Label	Distinguish	Generalize	Differentiate	Defend	Design
List	Explain	Judge	Distinguish	Compare	Develop
Locate	Express	Organize	Identify	Assess	Formulate
Match	Extend	Paint	Infer	Conclude	Hypothesize
Memorize	Give Examples	Prepare	Point out	Contrast	Invent
Name	Illustrate	Produce	Select	Critique	Make
Omit	Indicate	Select	Subdivide	Determine	Originate
Recite	Interrelate	Show	Survey	Grade	Organize
Select	Interpret	Sketch	Arrange	Justify	Plan
State	Infer	Solve	Breakdown	Measure	Produce
Count	Match	Use	Combine	Rank	Role Play
Draw	Paraphrase	Add	Detect	Rate	Drive
Outline	Represent	Calculate	Diagram	Support	Devise
Point	Restate	Change	Discriminate	Test	Generate
Quote	Rewrite	Classify	Illustrate		Integrate
Recall	Select	Complete	Outline		Prescribe
Recognize	Show	Compute	Point out		Propose
Repeat	Summarize	Discover	Separate		Reconstruct
Reproduce	Tell	Divide			Revise
	Translate	Examine			Rewrite
	Associate	Graph			Transform
	Compute	Interpolate			
	Convert	Manipulate			
	Discuss	Modify			
	Estimate	Operate			
	Extrapolate	Subtract			
	Generalize				
	Predict				



Suggested Activities & Best Practices

- Discuss various methods and media used for recording.
- Recognize elements of historic recording that still apply to the contemporary.
- Recognize and discuss various cultures and diverse backgrounds and their influence on audio production history.

Assessment Evidence - Checking for Understanding (CFU)

The following Evidence of Student learning with Checking for Understanding techniques will be employed:

- Unit Quiz (summative assessment)
- Unit Review (formative assessment)

- Web-Based Assessment (alternative assessment)
- Exit Tickets (formative assessment)
- Written Report (alternative assessment)
- Self-Assessments (formative assessment)
- Define (formative assessment)
- Compare and Contrast (formative assessment)
- Study Guide (formative assessment)
- Observations (formative assessment)
- Homework (formative assessment)

- Admit Tickets
- Anticipation Guide
- Common Benchmarks
- Compare & Contrast
- Create a Multimedia Poster
- DBQ's
- Define
- Describe
- Evaluate
- Evaluation rubrics
- Exit Tickets
- Explaining
- Fist- to-Five or Thumb-Ometer
- Illustration
- Journals
- KWL Chart
- Learning Center Activities
- Multimedia Reports
- Newspaper Headline
- Outline
- Question Stems
- Quickwrite
- Quizzes
- Red Light, Green Light
- Self- assessments
- Socratic Seminar
- Study Guide
- Surveys
- Teacher Observation Checklist
- Think, Pair, Share
- Think, Write, Pair, Share

- Top 10 List
- Unit review/Test prep
- Unit tests
- Web-Based Assessments
- Written Reports

Primary Resources & Materials

Materials to be used for for this course may include, but not be be limited to:

- YouTube videos
- Websites
- Information accessible via websites
- Chromebooks
- Smart TV
- PCs with audio production hardware

Ancillary Resources

Ancillary resources may include, but not be limited to:

- Compact Discs
- MP3s and other consumer digital media
- Vinyl records
- Audio cassettes
- YouTube videos

Technology Infusion

- Podcasts
- Khan Academy
- Twitter
- Wikipedia
- Office 365
- TED Talks

What **Technology Infusion** and/or strategies are integrated into this unit to enhance learning? Please list all hardware, software and strategies. Please find a technology pedagogy wheel for assistance while completing this section.

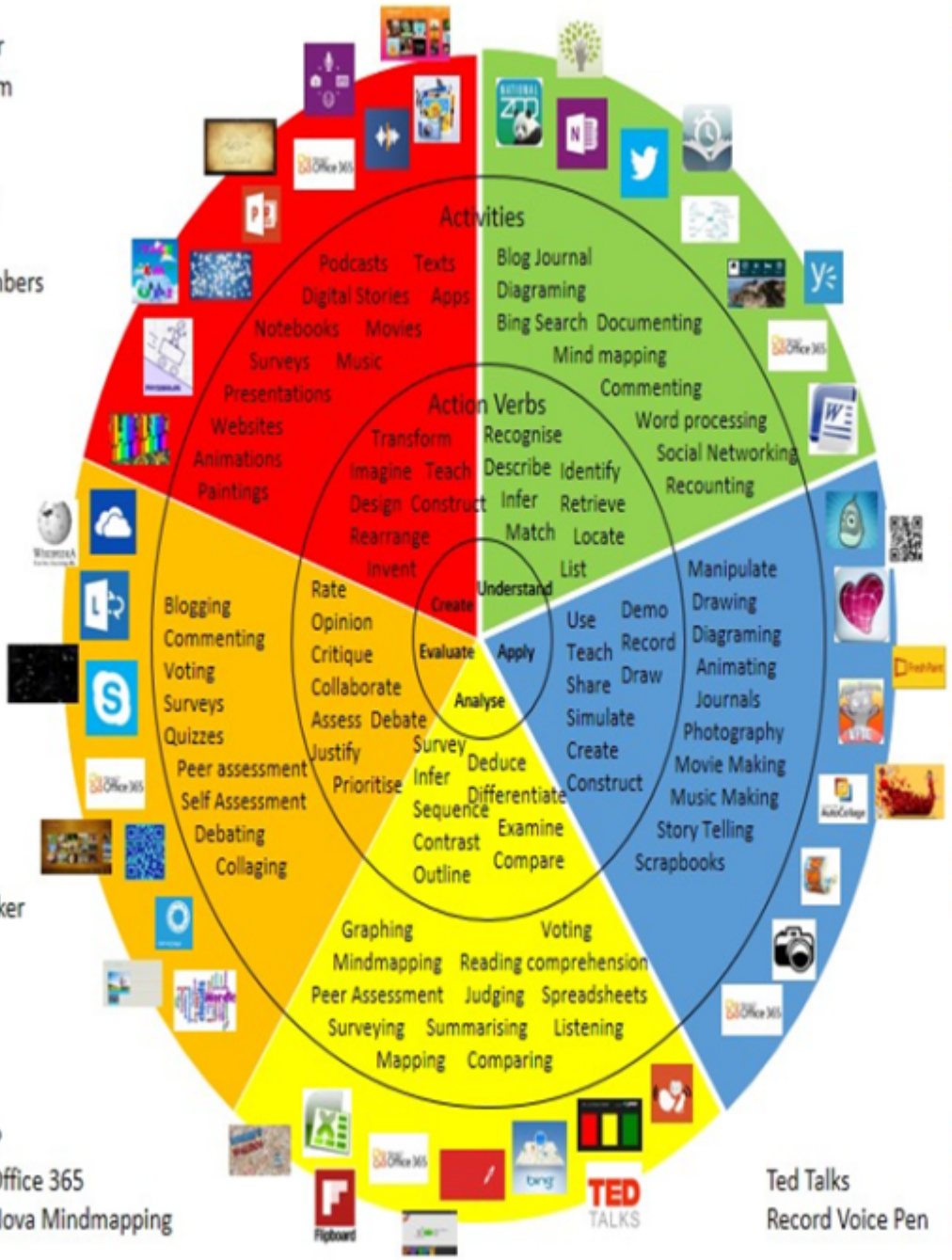
Win 8.1 Apps/Tools Pedagogy Wheel

Podcasts
Photostory 3
Kid Story Builder
Music Maker Jam
Paint A Story
Office 365
MS PowerPoint
Stack 'Em Up
NqSquared Numbers
Physamajig
Xylophone 8

Wikipedia
Skydrive
Lync
SkyMap
Skype
Office 365
Puzzle Touch
Easy QR
Memorylage
Life Moments
Word Cloud Maker

Where's Waldo?
MS Excel
Flipboard
Office 365
Nova Mindmapping

Ted Talks
Record Voice Pen



Originally taken from http://www.coetail.com/vzimmer/files/2013/02/iPadagogy-Wheel.001.jpg
And adapted for Windows 8.1 devices by Charlotte Beckhurst @CharBeckhurst

Alignment to 21st Century Skills & Technology

	Career planning requires purposeful planning based on research, self-knowledge, and informed choices.
9.2.12.CAP.4	Evaluate different careers and develop various plans (e.g., costs of public, private, training schools) and timetables for achieving them, including educational/training requirements, costs, loans, and debt repayment.
9.4.12.DC.7	Evaluate the influence of digital communities on the nature, content and responsibilities of careers, and other aspects of society (e.g., 6.1.12.CivicsPD.16.a).
9.4.12.DC.8	Explain how increased network connectivity and computing capabilities of everyday objects allow for innovative technological approaches to climate protection.
9.4.12.GCA	Global and Cultural Awareness
	Advanced search techniques can be used with digital and media resources to locate information and to check the credibility and the expertise of sources to answer questions, solve problems, and inform the decision-making.

21st Century Skills/Interdisciplinary Themes

- Global awareness
- Environmental literacy
- Civic literacy
- Communication and Collaboration
- Creativity and Innovation
- Life and Career Skills
- Critical Thinking and Problem Solving

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- ICT (Information, Communications and Technology) Literacy
- Information Literacy
- Life and Career Skills
- Media Literacy

21st Century Skills

- Communication and Collaboration
- Information Literacy
- ICT (Information, Communications and Technology) Literacy
- Life and Career Skills

- Creativity and Innovation
- Critical Thinking and Problem Solving

- Civic Literacy
- Environmental Literacy
- Financial, Economic, Business and Entrepreneurial Literacy
- Global Awareness
- Health Literacy

Differentiation

- Students will have the same subject matter but will have different outcomes.
- Progress will be the same but the product will be different.
- Guided instruction, direct instruction, group instruction.
- Assist students with IEP & 504 guidelines.
- Study guides, group and peer instruction, extended time/ test time, oral testing
- Small group instruction
- Small group assignments
- Extra time to complete assignments
- Pairing oral instruction with visuals
- Repeat directions
- Scheduled breaks
- Rephrase written directions

- Alternative formative and summative assessment
- Leveled rubrics
- Project-based learning

- Exploration by interest
- Open-ended activities

Special Education Learning (IEP's & 504's)

- additional time for skill mastery
- preview of content, concepts, and vocabulary
- behavior management plan
- have student repeat directions to check for understanding
- teacher initiated weekly assignment sheet
- assistive technology
- check work frequently for understanding
- secure attention before giving instruction/directions

- multi-sensory presentation
- preferential seating
- Reduced/shortened written assignments
- printed copy of board work/notes provided

- printed copy of board work/notes provided
- additional time for skill mastery
- assistive technology
- behavior management plan
- Center-Based Instruction
- check work frequently for understanding
- computer or electronic device utilizes
- extended time on tests/ quizzes
- have student repeat directions to check for understanding
- highlighted text visual presentation
- modified assignment format
- modified test content
- modified test format
- modified test length
- multi-sensory presentation
- multiple test sessions
- preferential seating
- preview of content, concepts, and vocabulary
- Provide modifications as dictated in the student's IEP/504 plan
- reduced/shortened reading assignments
- Reduced/shortened written assignments
- secure attention before giving instruction/directions
- shortened assignments
- student working with an assigned partner
- teacher initiated weekly assignment sheet
- Use open book, study guides, test prototypes

English Language Learning (ELL)

- using videos, illustrations, pictures, and drawings to explain or clarify
- teaching key aspects of a topic. Eliminate nonessential information
- having peers take notes or providing a copy of the teacher’s notes
- providing study guides
- allowing students to correct errors (looking for understanding)
- reducing or omitting lengthy outside reading assignments
- allowing products (projects, timelines, demonstrations, models, drawings, dioramas, poster boards,

charts, graphs, slide shows, videos, etc.) to demonstrate student's learning;

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- allowing products (projects, timelines, demonstrations, models, drawings, dioramas, poster boards, charts, graphs, slide shows, videos, etc.) to demonstrate student's learning;
- allowing students to correct errors (looking for understanding)
- allowing the use of note cards or open-book during testing
- decreasing the amount of workpresented or required
- having peers take notes or providing a copy of the teacher's notes
- modifying tests to reflect selected objectives
- providing study guides
- reducing or omitting lengthy outside reading assignments
- reducing the number of answer choices on a multiple choice test
- tutoring by peers
- using computer word processing spell check and grammar check features
- using true/false, matching, or fill in the blank tests in lieu of essay tests

At Risk

- decreasing the amount of workpresented or required
- using videos, illustrations, pictures, and drawings to explain or clarify
- tutoring by peers
- having peers take notes or providing a copy of the teacher's notes
- providing study guides
- allowing students to correct errors (looking for understanding)
- marking students' correct and acceptable work, not the mistakes
- educing or omitting lengthy outside reading assignments
- allowing products (projects, timelines, demonstrations, models, drawings, dioramas, poster boards, charts, graphs, slide shows, videos, etc.) to demonstrate student's learning
- modifying tests to reflect selected objectives
- allowing the use of note cards or open-book during testing
- collaborating to modify vocabulary, omit or modify items how the grade will be determined prior to giving the test to reflect objectives for the student, eliminate sections of the test, and determine

- allowing students to correct errors (looking for understanding)
- teaching key aspects of a topic. Eliminate nonessential information
- allowing products (projects, timelines, demonstrations, models, drawings, dioramas, poster boards, charts, graphs, slide shows, videos, etc.) to demonstrate student's learning
- allowing students to select from given choices
- allowing the use of note cards or open-book during testing
- collaborating (general education teacher and specialist) to modify vocabulary, omit or modify items to reflect objectives for the student, eliminate sections of the test, and determine how the grade will be determined prior to giving the test.

- decreasing the amount of workpresented or required
- having peers take notes or providing a copy of the teacher's notes
- marking students' correct and acceptable work, not the mistakes
- modifying tests to reflect selected objectives
- providing study guides
- reducing or omitting lengthy outside reading assignments
- reducing the number of answer choices on a multiple choice test
- tutoring by peers
- using authentic assessments with real-life problem-solving
- using true/false, matching, or fill in the blank tests in lieu of essay tests
- using videos, illustrations, pictures, and drawings to explain or clarify

Talented and Gifted Learning (T&G)

- Create a blog or social media page about their unit
- Debate issues with research to support arguments
- Complete activities aligned with above grade level text using Benchmark results
- Advanced problem-solving
- Above grade level placement option for qualified students
- Higher order, critical & creative thinking skills, and discovery
- Flexible skill grouping within a class or across grade level for rigor
- Teacher-selected instructional strategies that are focused to provide challenge, engagement, and growth opportunities
- Multi-disciplinary unit and/or project
- Allow students to work at a faster pace

- Above grade level placement option for qualified students
- Advanced problem-solving
- Allow students to work at a faster pace
- Cluster grouping
- Complete activities aligned with above grade level text using Benchmark results
- Create a blog or social media page about their unit
- Create a plan to solve an issue presented in the class or in a text
- Debate issues with research to support arguments
- Flexible skill grouping within a class or across grade level for rigor
- Higher order, critical & creative thinking skills, and discovery
- Multi-disciplinary unit and/or project
- Teacher-selected instructional strategies that are focused to provide challenge, engagement, and growth opportunities
- Utilize exploratory connections to higher-grade concepts
- Utilize project-based learning for greater depth of knowledge

Sample Lesson

Unit Name: Unit One: History of Audio Production

NJSLS: See above

Interdisciplinary Connection: Technology, social studies/history

Statement of Objective: SWDAT understand the history of early recording technologies, how they were used, their advantages, their limitations, and how they influenced subsequent recording technologies.

Anticipatory Set/Do Now: Students will be able to identify past recording technologies, how they are different from today's technology, and what the lineage between them is.

Learning Activity: Students will observe videos demonstrating the use and workings of early recording technologies (e.g., wax cylinder, gramophone, magnetic tape, etc.). Discussion will follow.

Student Assessment/CFU's: Class discussion, quiz

Materials: Videos, examples of such technologies

21st Century Themes and Skills: Communication and Collaboration, Information Literacy, Media Literacy

Differentiation/Modifications: Preferential seating for observing video, allowance for necessary repetition during discussion, extra time for quiz

Integration of Technology: Google Classroom, access to internet for YouTube videos and other exemplary materials