

# Unit 1B: History of Audio Production

Content Area: **Art**  
Course(s): **Art Behind the Music**  
Time Period: **SeptOct**  
Length: **10 days**  
Status: **Published**

## **Title Section**

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## **Department of Curriculum and Instruction**



**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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Board Approved: September 23, 2019

## **Unit Overview**

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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**

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- 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

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- 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

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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 (NJSL-S)

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|----------------|--|
| VPA.1.2.12.A.1 | Determine how dance, music, theatre, and visual art have influenced world cultures throughout history.   |
| VPA.1.2.12.A.2 | Justify the impact of innovations in the arts (e.g., the availability of music online) on societal norms and habits of mind in various historical eras.  |
| VPA.1.3.12.B.1 | Analyze compositions from different world cultures and genres with respect to technique, musicality, and stylistic nuance, and/or perform excerpts with technical accuracy, appropriate musicality, and the relevant stylistic nuance.                                   |
| VPA.1.3.12.B.2 | Analyze how the elements of music are manipulated in original or prepared musical scores.  |
| VPA.1.4.12.A.1 | Use contextual clues to differentiate between unique and common properties and to discern the cultural implications of works of dance, music, theatre, and visual art.   |
| VPA.1.4.12.A.2 | Speculate on the artist's intent, using discipline-specific arts terminology and citing embedded clues to substantiate the hypothesis.   |
| VPA.1.4.12.A.3 | Develop informed personal responses to an assortment of artworks across the four arts disciplines (dance, music, theatre, and visual art), using historical significance, craftsmanship, cultural context, and originality as criteria for assigning value to the works. |
| VPA.1.4.12.A.4 | Evaluate how exposure to various cultures influences individual, emotional, intellectual,  |

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|                  | and kinesthetic responses to artwork.   |
| VPA.1.4.12.B.2   | Evaluate how an artist's technical proficiency may affect the creation or presentation of a work of art, as well as how the context in which a work is performed or shown may impact perceptions of its significance/meaning. |
| VPA.1.4.12.B.3   | Determine the role of art and art-making in a global society by analyzing the influence of technology on the visual, performing, and multimedia arts for consumers, creators, and performers around the world.                |
| TECH.9.4.12.DC.3 | Evaluate the social and economic implications of privacy in the context of safety, law, or ethics (e.g., 6.3.12.HistoryCA.1).   |

## **Interdisciplinary Connections**

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| 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**

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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.

| <b>Remember</b> | <b>Understand</b> | <b>Apply</b> | <b>Analyze</b> | <b>Evaluate</b> | <b>Create</b> |
|-----------------|-------------------|--------------|----------------|-----------------|---------------|
| 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**

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- Discuss various methods and media used for recording.
- Recognize elements of historic recording that still apply to the contemporary.

### **Assessment Evidence - Checking for Understanding (CFU)**

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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**

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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**

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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**

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- 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.



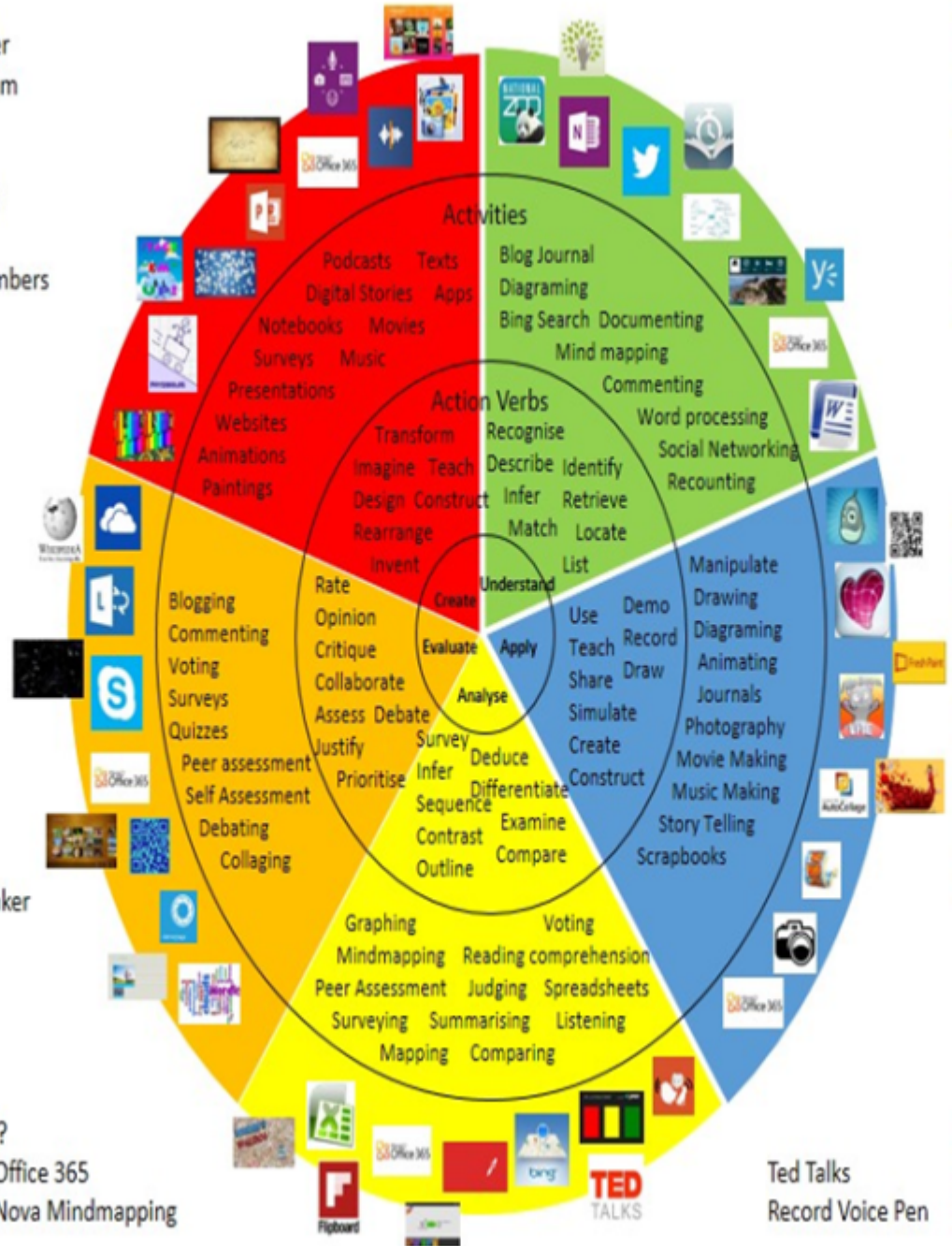
# Win 8.1 Apps/Tools Pedagogy Wheel

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      Office 365  
 Flipboard      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

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|                  |  |
|------------------|--|
| CRP.K-12.CRP2.1  | Career-ready individuals readily access and use the knowledge and skills acquired through experience and education to be more productive. They make connections between abstract concepts with real-world applications, and they make correct insights about when it is appropriate to apply the use of an academic skill in a workplace situation.  |
| CRP.K-12.CRP4.1  | Career-ready individuals communicate thoughts, ideas, and action plans with clarity, whether using written, verbal, and/or visual methods. They communicate in the workplace with clarity and purpose to make maximum use of their own and others' time. They are excellent writers; they master conventions, word choice, and organization, and use effective tone and presentation skills to articulate ideas. They are skilled at interacting with others; they are active listeners and speak clearly and with purpose. Career-ready individuals think about the audience for their communication and prepare accordingly to ensure the desired outcome.   |
| CRP.K-12.CRP6.1  | Career-ready individuals regularly think of ideas that solve problems in new and different ways, and they contribute those ideas in a useful and productive manner to improve their organization. They can consider unconventional ideas and suggestions as solutions to issues, tasks or problems, and they discern which ideas and suggestions will add greatest value. They seek new methods, practices, and ideas from a variety of sources and seek to apply those ideas to their own workplace. They take action on their ideas and understand how to bring innovation to an organization.   |
| CRP.K-12.CRP8.1  | Career-ready individuals readily recognize problems in the workplace, understand the nature of the problem, and devise effective plans to solve the problem. They are aware of problems when they occur and take action quickly to address the problem; they thoughtfully investigate the root cause of the problem prior to introducing solutions. They carefully consider the options to solve the problem. Once a solution is agreed upon, they follow through to ensure the problem is solved, whether through their own actions or the actions of others.   |
| CRP.K-12.CRP10.1 | Career-ready individuals take personal ownership of their own education and career goals, and they regularly act on a plan to attain these goals. They understand their own career interests, preferences, goals, and requirements. They have perspective regarding the pathways available to them and the time, effort, experience and other requirements to pursue each, including a path of entrepreneurship. They recognize the value of each step in the education and experiential process, and they recognize that nearly all career paths require ongoing education and experience. They seek counselors, mentors, and other experts to assist in the planning and execution of career and personal goals. |
| CRP.K-12.CRP11.1 | Career-ready individuals find and maximize the productive value of existing and new technology to accomplish workplace tasks and solve workplace problems. They are flexible and adaptive in acquiring new technology. They are proficient with ubiquitous technology applications. They understand the inherent risks-personal and organizational-of technology applications, and they take actions to prevent or mitigate these risks.   |
| CRP.K-12.CRP12.1 | Career-ready individuals positively contribute to every team, whether formal or informal. They apply an awareness of cultural difference to avoid barriers to productive and positive interaction. They find ways to increase the engagement and contribution of all team members. They plan and facilitate effective team meetings.   |
| CAEP.9.2.12.C.1  | Review career goals and determine steps necessary for attainment.  |
| CAEP.9.2.12.C.3  | Identify transferable career skills and design alternate career plans.   |

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|-----------------|---|
| CAEP.9.2.12.C.6 | Investigate entrepreneurship opportunities as options for career planning and identify the knowledge, skills, abilities, and resources required for owning and managing a business. |
| TECH.8.1.12.E.1 | Produce a position statement about a real world problem by developing a systematic plan of investigation with peers and experts synthesizing information from multiple sources.     |
| TECH.8.1.12.F.1 | Evaluate the strengths and limitations of emerging technologies and their impact on educational, career, personal and or social needs.  |

## **21st Century Skills/Interdisciplinary Themes**

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- 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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- Communication and Collaboration
  - Creativity and Innovation
  - Critical thinking and Problem Solving
  - ICT (Information, Communications and Technology) Literacy
  - Information Literacy
  - Life and Career Skills
  - Media Literacy

## **21st Century Skills**

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- Communication and Collaboration
  - Information Literacy
  - ICT (Information, Communications and Technology) Literacy
  - Life and Career Skills
  - Creativity and Innovation
  - Critical Thinking and Problem Solving
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- Civic Literacy
  - Environmental Literacy
  - Financial, Economic, Business and Entrepreneurial Literacy
  - Global Awareness
  - Health Literacy

## **Differentiation**

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- 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
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- Alternative formative and summative assessment
  - Leveled rubrics
  - Project-based learning
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- Exploration by interest
  - Open-ended activities

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

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- 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
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- 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
- multiple test sessions
- multi-sensory presentation
- 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)**

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- 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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- teaching key aspects of a topic. Eliminate nonessential information
  - using videos, illustrations, pictures, and drawings to explain or clarify
  - 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 work presented 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

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- decreasing the amount of work presented 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
  - 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
  - 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
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- 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 work presented 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)

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- 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
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- 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

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**Unit Name:** Unit One: History of Audio Production

**NJSLS:** VPA.1.2.12.A.1, VPA.1.2.12.A.2, VPA.1.3.12.B.1, VPA.1.3.12.B.2, VPA.1.4.12.A.1, VPA.1.4.12.A.2, VPA.1.4.12.A.3, VPA.1.4.12.A.4, VPA.1.4.12.B.2, VPA.1.4.12.B.3

**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