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Belleville Public Schools

Curriculum Guide

Art Behind the Music, GRADES 11 & 12

Unit 5: Mastering

Belleville Board of Education

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Unit Overview

Unit Five will introduce the concepts and methods for mastering an audio recording.

Mastering:

- This unit will intrudce students to the concepts and methods for mastering an audio recording.
- The students will learn the difference between mixing an audio recording and mastering an audio recording.
- The unit will involve all the previous works created by the students in the creation of a final project.

Enduring Understanding

- The basic differentiation between mixing an audio recording and mastering an audio recording.
- The concepts of what it is to master an audio recording.
    - Unifying the sound of the recording.
    - Maintaining a consistent sound across the album.
    - Preparing the album for distribution (depending upon medium).
- The basic methods of mastering an audio recording.

- It is important to have knowledge of the concepts and methods of mastering an audio recording to create a product viable for consumption by the intended audience.

Essential Questions

- How do I unify the sound of an audio recording?
- How do I maintain a consistent sound across an album?
- How do I prepare the album for distribution?
- How does the knowledge of the concepts and methods of mastering an audio recording help me to better understand how the audio they consume sounds the way it does?

Exit Skills

By the end of Unit Five:

- All students will demonstrate an understanding of mastering by:
    - Taking a quiz on the concepts and methods of mastering an audio recording.
    - Applying the concepts and methods of mastering an audio recording to all cummulative audio projects by:
        - Unifying the sound of all cummulative audio projects.
        - Maintaining a consistent sound across the album of all cummulative audio projects.
        - Preparing that album for distribution.
    - The students will have some sort of understanding of how to master an audio recording to create an audio product that is consumable by others.

New Jersey Student Learning Standards (NJSLS-S)

1.3C.12nov.Cr	Creating
1.3C.12nov.Cr1	Generating and conceptualizing ideas.
	Imagine
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.Cr2	Organizing and developing ideas.
	Plan, Make
1.3C.12nov.Cr2a	Select and develop draft melodic and rhythmic ideas or motives that demonstrate understanding of characteristic(s) of music or text(s) studied in rehearsal.
1.3C.12nov.Cr3	Refining and completing products.
	Evaluate, Refine

1.3C.12nov.Cr3a	Evaluate and refine draft compositions and improvisations based on knowledge, skill and teacher-provided criteria.
1.3C.12nov.Cr3b	Share personally developed melodic and rhythmic ideas or motives (individually or as an ensemble) that demonstrate understanding of characteristics of music or texts studied in rehearsal.
1.3C.12nov.Pr	Performing
1.3C.12nov.Pr4	Selecting, analyzing and interpreting work.
1.3C.12nov.Pr5	Developing and refining techniques and models or steps needed to create products.
	Rehearse, Evaluate, Refine
1.3C.12nov.Pr6	Conveying meaning through art.
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).

Interdisciplinary Connections

9.3.12.AR	Arts, A/V Technology & Communications
9.3.12.AR.1	Analyze the interdependence of the technical and artistic elements of various careers within the Arts, A/V Technology & Communications Career Cluster.
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.

Learning Objectives

After completing Unit Five the students will be able to:

Appraise the qualities of the audio recording and apply the proper effects and equalization to the audio.

Formulate a cohesive sound that will apply to all tracks of audio in the album.

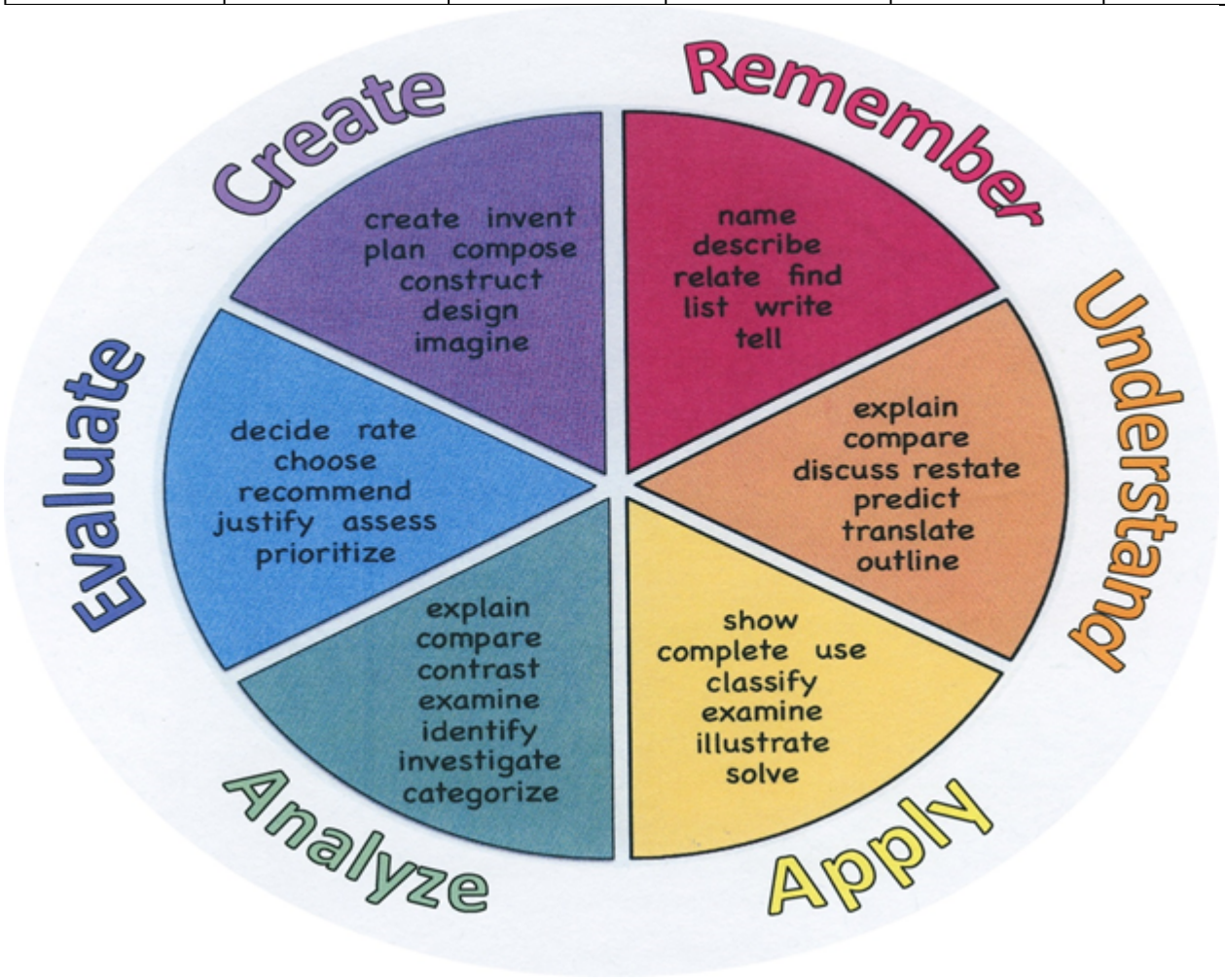
Critique the application of the mastering methods to the album using various audio playback devices.

Transform the audio tracks that have been recorded into a final product that can be consumed and enjoyed by the masses.

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 Name Omit Recite Select State Count Draw Outline Point Quote Recall Recognize Repeat Reproduce	Give Examples Illustrate Indicate Interrelate Interpret Infer Match Paraphrase Represent Restate Rewrite Select Show Summarize Tell Translate Associate Compute Convert Discuss Estimate Extrapolate Generalize Predict	Prepare Produce Select Show Sketch Solve Use Add Calculate Change Classify Complete Compute Discover Divide Examine Graph Interpolate Manipulate Modify Operate Subtract	Point out Select Subdivide Survey Arrange Breakdown Combine Detect Diagram Discriminate Illustrate Outline Point out Separate	Contrast Critique Determine Grade Justify Measure Rank Rate Support Test	Invent Make Originate Organize Plan Produce Role Play Drive Devise Generate Integrate Prescribe Propose Reconstruct Revise Rewrite Transform



Suggested Activities & Best Practices

- Demonstrate the ability to appraise the qualities of the separate audio tracks to transform them into a cohesive package.
- Critique--individually, in groups, and as a class--the mastered albums for the purpose of possible revisions.
- Class discussion on producers of various cultures and diverse backgrounds.

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)
- Self-Assessments (formative assessment)
- Compare and Contrast (formative assessment)
- Study Guide (formative assessment)
- Observations (formative assessment)
- Homework (formative assessment)
- Exam (summative 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:

- Musical instruments
- Instrument amplifiers

- Non-student performances

Technology Infusion

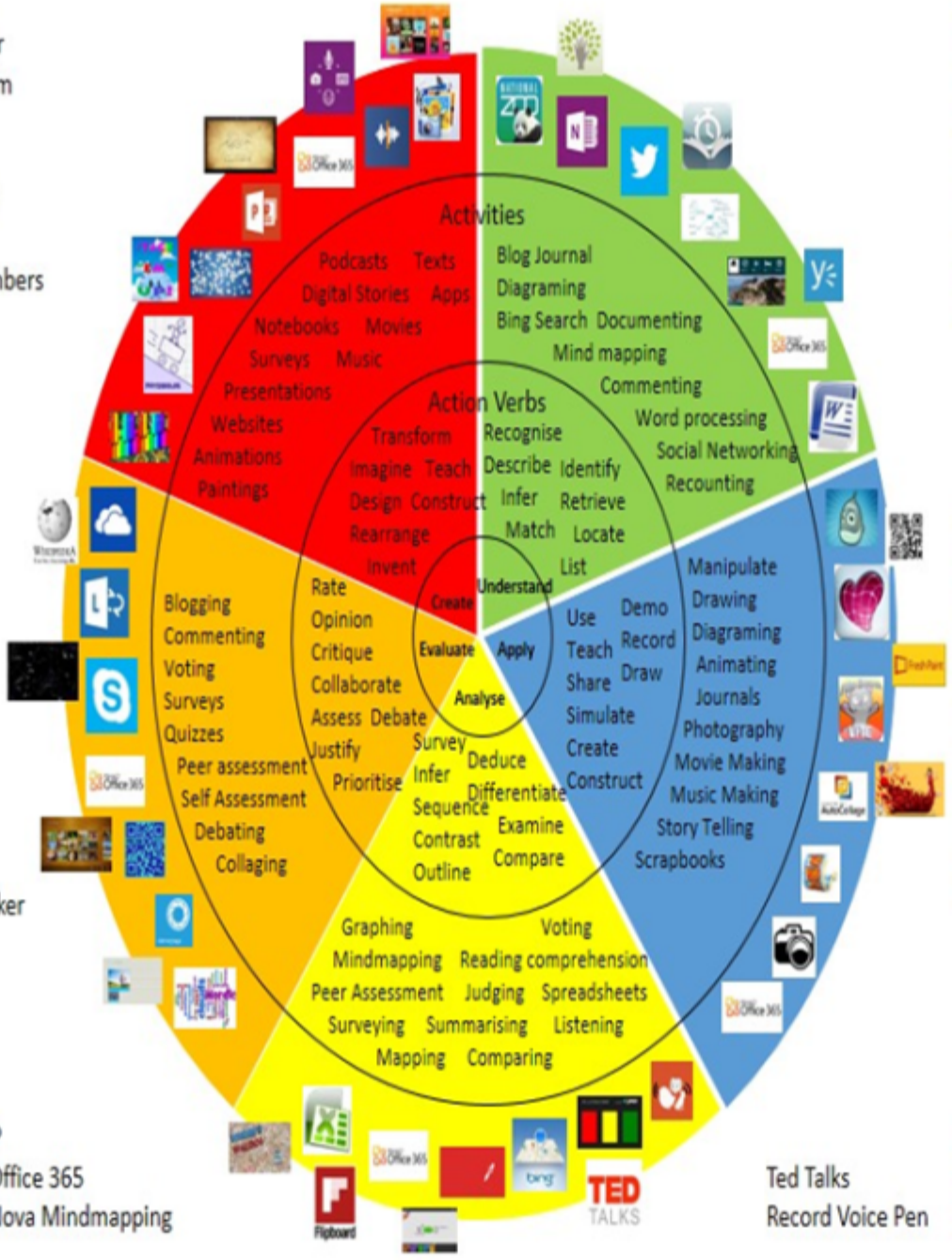
- Music Maker Jam
- Podcasts
- Khan Academy
- Twitter
- Windows Movie Maker
- Wikipedia
- TED Talks

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

9.4.12.CI	Creativity and Innovation
9.2.12.CAP	Career Awareness and Planning
	With a growth mindset, failure is an important part of success.
9.2.12.CAP.1	Analyze unemployment rates for workers with different levels of education and how the economic, social, and political conditions of a time period are affected by a recession.
9.2.12.CAP.3	Investigate how continuing education contributes to one's career and personal growth.
	Career planning requires purposeful planning based on research, self-knowledge, and informed choices.
9.4.12.CT	Critical Thinking and Problem-solving
9.4.12.DC	Digital Citizenship
	Laws govern the use of intellectual property and there are legal consequences to utilizing or sharing another’s original works without permission or appropriate credit.

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

- 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

- 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 Five: Mastering

NJSLS: See Above

Interdisciplinary Connection: Technology, social studies/history

Statement of Objective: SWDAT understand the basic differentiation between mixing an audio recording and mastering an audio recording.

Anticipatory Set/Do Now: Students will split up into groups to help each other and critique their audio recordings.

Learning Activity: Students will observe classmates and critique each others' recordings.

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