Unit 1 Talking Digital and Electronic Music

Content Area: **Music**
Course(s): **Digital Audio and Electronic Music**
Time Period: **September**
Length: **3 weeks**
Status: **Published**

Transfer

Talking Digital and Electronic Music Vocabulary

Enduring Understandings

The relationship of the arts and culture is mutually dependent; culture affects the arts and the arts reflect and preserve culture.

The relationship between technology and musical composition and performance.

Essential Questions

Do I understand how sound works?

How is a microphone like an eardrum?

What is a transducer?

How does microphone selection and microphone placement affect recordings and/or sound reinforcement?

What type of audio products provide for the best value and quality of sound reproduction, at a given price point?

How does the size, shape, and contents of a room affect the sound?

How do analog and digital synthesizers sound different?

What is analog synthesis

Content

Analog Synthesis

ADSR

Controlled Voltage

Envelope Generator

Low Pass Filter

High Pass Filter

Transducer

Acoustics

Sound Wave

Sine, Square, Sawtooth, Pulse

pitch

frequency

duration

echo

reverberation

Learning Objectives

Explain frequency, wave length, proximity effect, and bass roll off.

Discuss sound waves, Wave length, speed of sound, Sound reflection and sound absorption.

Discuss the role of transducers in electronic music.

Discuss the role of room acoustics in the placement of microphones, speakers, and room contents.

Become an educated consumer in the selection of audio products.

Demonstrate understanding of product specification terms and analog synthesis.

Discuss analog synthesis and identify the sound of analog electronic instruments in recordings.

Identify cables and connectors and interconnect audio components used for sound reinforcement.

Distinguish the difference between digital and analog synthesizers.

Standards

NJ: 2014 CCCS: Visual & Performing Arts

NJ: Grade 12

1.4 Aesthetic Responses & Critique Methodologies

1.4 Aesthetic Responses & Critique Methodologies: All students will demonstrate and apply an understanding of arts philosophies, judgment, and analysis to works of art in dance, music, theatre, and visual art.

A. Aesthetic Responses

Show details

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.

B. Critique Methodologies

Show details

1.4.12.B.1 Formulate criteria for arts evaluation using the principles of positive critique and observation of the elements of art and principles of design, and use the criteria to evaluate works of dance, music, theatre, visual, and multimedia artwork from diverse cultural contexts and historical eras.

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.

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VPA.1.4.12.A	Aesthetic Responses
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