**Curriculum**

**Music Technology**

**Course Overview**

This course aims to provide students with an overview of the Logic software and how to record and manipulate both MIDI and audio tracks to create a finished piece of music on a stereo audio file.

**Department Standards**

* Students will sing alone and with others, a varied repertoire of music.
* Students will perform on instruments, alone and with others, a varied repertoire of music.
* Students will improvise melodies, variations, and accompaniments.
* Students will compose and arrange music within specified guidelines.
* Students will read and notate music.
* Students will listen to, analyze, and describe music.
* Students will evaluate music and music performances.
* Students will understand relationships between music, the other arts, and disciplines outside the arts.
* Students will understand music in relation to history and culture.

**Benchmarks**:

Students learn the Interface and basic features of the Logic software.

Students learn how to create software instrument tracks and edit MIDI data.

Students learn how to record a MIDI instrument using an external keyboard.

Students learn how to mix several software instrument tracks down to a stereo audio file.

Students learn how to record a guitar onto an audio track using an external mixer with a separate monitoring facility.

Students learn how to add effects to both individual tracks and the final mix.

Students learn how to manipulate audio in the different editors.

Students learn how to program a drum track.

files supplied by the artist (Nine Inch Nails DVD Y34RZr0r3mix3d)

**Performance Indicators**

1.Students will be able to:

1.Create software instruments for the various tracks.

2.Mix down to a stereo audio file.

3.Record a bass in MIDI from a score.

4.Record a guitar onto an audio track.

Students will be able to:

1.Record instruments in MIDI from a score.

2.Record instruments onto audio tracks.

3.Add effects to tracks.

4.Manipulate audio in the different editors.

3.Program a drum track.

6.Record a percussion instrument onto an audio track.

**Assessments**

Two Projects:

1. 'Fields of Gold'

2. 'Wonderful Tonight'

Three Projects:

1.'Addicted to Love"

2.'Dance Team Mix"

3.'Put it Where You Want it'

**Core Topics**

'Logic Pro 8 and Logic Express 8'(textbook)

Recording MIDI.

Recording audio.

Mixing.

Adding effects.

'Logic Pro 8 and Logic Express 8' (textbook)

Recording MIDI.

Recording audio.

Mixing.

Adding effects.

Editing Audio.

Drum programming.

**Specific Content**

1.An overview of the interface and basic features of Logic.

2.Creating software instrument tracks and editing MIDI data.

3.Recording a MIDI instrument using an external keyboard.

4.Students will be able to mix several software instrument tracks down to a stereo audio file.

5.Record a guitar onto an audio track using an external mixer with a separate monitoring facility.

6.Add effects to both individual tracks and the final mix.

1.Develop the skills learned in the first Quarter, on the second Quarter projects, to a higher standard.

2.Record MIDI bass and keyboard tracks from a score,using an external keyboard.

3.Record guitar and saxophone onto audio tracks.

4.Mix several tracks down to a stereo audio file,while adding effects to both the individual tracks and the final audio file.

5.Manipulate audio in the different editors.

6.Program a drum track.

**Resources**

'Logic Pro 8 and Logic Express 8' (textbook)

MIDI file for 'Fields of Gold'.

Score and MIDI file for 'Wonderful Tonight'.

'Logic Pro 8 and Logic Express 8'(textbook)

Score and MIDI file for 'Addicted to Love'

Score for 'Put it Where You Want it'

Six audio files for the 'Dance Team Mix' project.

Updated 15/03/16