

IMAGE JUNCTION

Image Junction

This project enables students to explore how music compliments the moving image by participating in a multimedia performance event combining music technology and live performance on instruments.

This project is split into three sections:

1. Understanding minimalism through listening, composing and performing, and creating a backing track
2. Composing drum loops (using music technology) and riffs (on acoustic/electronic instruments) using minimalist composing techniques
3. Rehearsing and performing as a whole class to create a complete soundtrack for a short film over a backing track

PREPARATION

- Research suitable films (see below)
- Produce a template to highlight key events in the film (with timings) as a tool for structuring the soundtrack and cueing performers
- Prepare a worksheet based around your minimalist piece that enables students to identify specific composing techniques, or download the sample worksheet provided on www.musicalfutures.org.uk/image+junction
- Organise a final performance, for example a class performance, performance in assembly, in an out-of-school context, etc

SELECTING A FILM

This project requires you to select a short film (no more than four minutes long) to use with your students. Films that are royalty free for educational use can be found on www.archive.org/details/opensource_movies. Films will be most suitable if they have little or no dialogue and have a natural rhythm: avoid those that might encourage isolated sound effects.

VIDEO LINK

The film *Boom Bip* used in the Nottingham City pilot for this project is available from www.musicalfutures.org.uk/image+junction

RESOURCES

- Laptop/projector/screen to show the film
- ICT facilities with computers running sequencing software (for example Acid Xpress (PC), Garageband (Mac users) or suitable alternatives). Audacity editing software may also be useful and is available free from <http://audacity.sourceforge.net/>

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EXPLORING MINIMALISM: LISTENING AND UNDERSTANDING

The following are examples of minimalist tracks available for download on iTunes, which are suitable for listening exercises:

- *Block Rockin' Beats* or *One Too Many Mornings* – Chemical Brothers (Be careful of language on other tracks on this album)
- *Different Trains* – Steve Reich
- *Elements* – Lemon Jelly
- *Neqoyqatsi* – Philip Glass

A sample worksheet is available on www.musicalfutures.org.uk/image+junction which highlights minimalist techniques (for example repetition, repetition with slight changes, subtractive melodies, layering loops over time, phase shifting, etc).

EXPLORING MINIMALISM: COMPOSING

Using tuned percussion instruments (or keyboards) over a backing beat (for example a drum loop):

- Create a short pattern (based around a G pentatonic scale) that students can 'loop' in time with the backing track. You can use any mode/scale here, however we have made suggestions throughout this project based on G pentatonic
- Practise altering the pattern by adding or subtracting a note
- Practise altering the pattern by changing the pitch of one note
- In pairs, practise repeating the original version and one of the altered versions on top of each other
- Identify one of the patterns produced by the students and ask the composer of the chosen melodic pattern to teach it to the rest of the group
- Record the whole group performing, keeping in time with the backing track
- Listen to the recording and ask students to create a new part that acts as a rhythmic counterpoint
- Practise playing both parts together. Keep this recording as it can link into the live instrumental work later on in the unit

ALTERNATIVE ACTIVITY

- Translate the football chant phase-shifting exercise into a melodic pattern and practise in pairs, with one student holding the original part against a beat, and the other playing the shifting part, then swap
- Use a sequencer to experiment with all of the above techniques

COMPOSING A BACKING TRACK USING MUSIC TECHNOLOGY

Using your chosen music technology software, students create their own film backing track made up of short minimalist loops:

- Find and audition up to ten drum loops from the sample library of your chosen sequencing/looping software or, preferably, explore with students what makes a good drum pattern, and use software to create and audition their own drum patterns using an input grid. Stress the need for a clear beat for live performers to play to
- Show students how to set up a loop lasting no more than eight bars and using chosen sounds/effects
- Play students' loops and ask the class to make decisions about which are the most effective loops and/or structures, and which are likely to be most effective as backing tracks for the film
- Save the work, so that an overall backing track for the film can be put together from students' ideas
- Mix the music technology backings created by the students so that the overall backing track is synched to the film

COMPOSING MINIMALIST LOOPS ON INSTRUMENTS

- Explain to students that they will be creating patterns on instruments in small groups to build up a minimalist piece in layers. Their loops should be grounded in G pentatonic so they can fit together later
- Explain that they will also need to use at least one of the minimalist techniques discussed in earlier sessions
- Split the class into three/four instrumental groups – based on what instruments and space you have in your department

This process could last anything between two to four weeks.

In instrumental groups, music leaders should cover the following:

- Recap on instruments and playing techniques (this is presuming that this unit will follow some sort of skills-based project, for example Band Instrumental Work, page 88)
- Recap the G pentatonic scale and identify relevant notes on the instruments. Core loops should be based around a G pentatonic scale: individual loops may evolve later by introducing different notes (in minimalist style) against the G pentatonic background
- Create minimalist loops using a range of stimuli including the backing track and film action as starting points
- Explore how to use additive/subtractive techniques, layering of loops and phase shifting to develop the loops. Help students to experiment with this, as well as extended instrumental techniques, share their ideas with the group, and come to a group decision about the final version
- Encourage students to evaluate their own loops, identify the most effective ones, and then teach these to the rest of the group

IMAGE JUNCTION

- Encourage students to notate their loops using stave or graphic notation to help them remember for subsequent weeks
- Practise the final version of the instrumental loops keeping in time with the backing track: what features of the backing track do they need to listen out for in order to 'lock' with it?

While students are creating instrumental loops, it is critical that they work with the backing track (as created in the music technology sessions), otherwise they may create loops that don't fit with the groove or sit naturally at the agreed tempo.

SPECIFIC INSTRUMENTAL GUIDANCE

The following is based on instruments that have been used for this project in Musical Futures schools. However this guidance can be adapted for use with any available instruments.

Violin

- Distribute instruments and encourage students to make sounds on them
- Demonstrate how to hold the violin, and introduce pizzicato. Encourage students to practise plucking different strings
- Carry out a call and response exercise on different strings
- Demonstrate bow hold and encourage students to practise bowing different strings
- Get the whole group to play call and response bowed patterns
- Introduce extended techniques such as tremolo, col legno, glissando to advanced students

Please note this is written as if this is students' first experience of playing a violin. If they are already familiar with the instrument, please adapt accordingly.

Bass/guitar

- Introduce sound manipulation (volume swells on bass/guitar, manipulation of equalisation on amps/guitars, etc)
- Practise playing on different strings
- Recap correct left-hand finger technique
- Carry out a call and response exercise using left hand notes
- Introduce extended techniques such as note bending, slaps, etc

Keyboard

- Recap G pentatonic scale and how to build chords from these notes
- Introduce different playing techniques (broken chords, legato/staccato, etc)
- Experiment with different sounds to get the right timbre and quality of attack for each loop

PUTTING IT TOGETHER

When your students are satisfied with their instrumental loops, bring all of the groups back together to fit their parts to the film and the backing track.

Discuss the role of the conductor with students and what various signals mean. Explain any signals that you are going to use beforehand (or consider developing signals in consultation with your students – see also the Guide to Classroom Workshopping (page 47) for some ideas about cues and signals). Demonstrate signals for 'start', 'stop', 'crescendo/decrescendo', etc.

- Set up the layout of the 'orchestra sections'
- Start the backing track and signal instrumental sections to perform their loops in time with the backing track. Use the graphic score you have developed as cues for individual loops
- Play the film and run the recorded backing track while conducting the live instruments over the top
- Discuss factors to consider when students are evaluating their work (for example playing in time, balance, contrast, placement of different loops, structure, dramatic effectiveness)
- Rehearse loops in instrumental groups
- Encourage students to use dynamics and different textures/timbres to refine their performance

PUBLIC SCREENING/PERFORMANCE

Plan with your students whether their performance will happen in lesson time (ideally film the session), or whether there will be a 'public screening' – for example all classes in assembly, for parents/carers in a concert, etc. After the performance, encourage students to write a review of the soundtrack.

OPTIONAL OUT-OF-HOURS LINK

After-school sessions for this project can include the opportunity for students to extend skills on music technology or any of the 'live' instruments. Students can also work with music leaders as a production team, making decisions about how to build the music technology loops into the overall film backing track and how to structure the interim and final film timelines.

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This project could take between five to eight weeks, therefore the timings will need to shift accordingly

Lesson	Content
1	<ul style="list-style-type: none"> • Introduce the project • Show students the film • Exploration of minimalist techniques through listening/performing
2	<ul style="list-style-type: none"> • Introduce students to composing drum loops on sequencing software • Students work on composing their own drum loops • Decide which loops to use for the backing track
3	<ul style="list-style-type: none"> • Show students the film with the remixed backing track • Students work in small groups creating loops on instruments, practicing loops against backing track • Listen to performances of instrumental loops as a whole class by each of the groups
4	<ul style="list-style-type: none"> • Decide how to structure the loops in relation to the film for maximum effect • Explain the role of the conductor, signalling etc • Work with the whole class on instruments performing to the backing track and film
5	<ul style="list-style-type: none"> • Final performance/practice for assembly, concert • Evaluation/feedback