The National Strategies Secondary

Functional Skills Support Programme

Developing functional skills in music



Functional Skills Support Programme

Developing functional skills in music

First published in 2010 Ref: 00071-2010BKT-EN

Disclaimer

The Department for Children, Schools and Families wishes to make it clear that the Department and its agents accept no responsibility for the actual content of any materials suggested as information sources in this publication, whether these are in the form of printed publications or on a website.

In these materials, icons, logos, software products and websites are used for contextual and practical reasons. Their use should not be interpreted as an endorsement of particular companies or their products.

The websites referred to in these materials existed at the time of going to print.

Please check all website references carefully to see if they have changed and substitute other references where appropriate.

Contents

What are functional skills?	3
What does this mean for learners?	4
What does this mean for me as a music teacher?	4
What functional skills can be developed and applied to music?	4
How can I secure the development of functional skills within my lessons?	6
What's in this booklet?	6
How can I use this booklet?	7
Context 1: Key Stage 3 – Creating an internet radio programme	9
Context 2: Key Stage 3 – Film music	12
Context 3: Key Stage 4 – Live multi-track recording	15
Functional skills in music: A planning process	18
Resources	19

Key to references

This booklet contains three contexts that highlight opportunities for pupils to develop and apply functional skills (FS), and personal, learning and thinking skills (PLTS). Coloured boxes indicate which specific skills are being developed. Within the boxes the following references have been used:

Reference	Explanation
FS.Eng.L1/SLC	Functional English level 1 – Speaking, listening and communication
FS.Eng.L1/R	Functional English level 1 – Reading
FS.Eng.L1/W	Functional English level 1 – Writing
FS.Ma. L1/	Functional mathematics level 1 followed by reference to one of the three interrelated process skills: representing, analysing and interpreting
FS.ICT.L1/UsingICT	Functional ICT level 1 – Using ICT
FS.ICT.L1/F&S	Functional ICT level 1 – Finding and selecting information
FS.ICT.L1/DP&CI	Functional ICT level 1 – Developing, presenting and communicating information
PLTS	Personal learning and thinking skills followed by reference to one of the six groups of skills

Developing functional skills in music

What are functional skills?

'Music is a unique form of communication that can change the way pupils feel, think and act. Music forms part of an individual's identity and positive interaction with music can develop pupils' competence as learners and increase their self-esteem. Music brings together intellect and feeling and enables personal expression, reflection and emotional development.'

The importance of music, National Curriculum 2007¹

Functional skills underpin and complement many of the key processes in music. They are the core elements of English, mathematics and ICT that enable pupils independently to:

- apply and adapt their knowledge and understanding to a range of contexts
- solve problems in familiar and unfamiliar situations
- gather, interpret and communicate information effectively and confidently.

Each of the three skills has a set of performance statements based on three key areas:

Functional English	Functional mathematics	Functional ICT
 Speaking, listening and communication Reading Writing 	 Representing – selecting the mathematics and information required to model a situation Analysing – processing and using mathematics Interpreting and communicating the results of the analysis 	 Using ICT Finding and selecting information Developing, presenting and communicating information

The skills are embedded through the programmes of study in the new secondary curriculum at both Key Stage 3 and Key Stage 4 and form an essential part of GCSE and new Diploma courses. Alongside the new Framework for personal, learning and thinking skills, functional skills are fundamental to learning across the curriculum and are key to success for pupils, both now and in their future.

For further information about the functional skills visit: www.ofqual.gov.uk/2578.aspx and www.qcda.gov.uk/6062.aspx

'Functional skills provide a great opportunity for linking music to other areas of the curriculum. Our pupils are happier knowing that the skills they are learning in music link to their learning in other subjects. It helps them become successful musicians!'

Subject leader

1 The Importance of music, National Curriculum 2007. © Qualifications and Curriculum Authority. Used with kind permission.

Functional Skills Support Programme Developing functional skills in music

The curriculum opportunities in the programmes of study for all subjects, combined with many of the key processes, have been designed to ensure that pupils have **planned** opportunities to transfer the functional skills they are developing to as many varied and relevant situations as possible.

For more information relating to the role of functional skills in Foundation Learning, GCSEs, Diplomas and apprenticeships visit: www.dcsf.gov.uk/14-19/

What does this mean for learners?

Pupils who are able to apply functional skills effectively will make better progress in music and in the rest of their studies. They will not only engage in the content of what is being taught but will become more actively involved in the learning process. They will understand the purpose of the English, mathematics and ICT skills they are transferring and securing and will take greater responsibility for furthering their own progress.

What does this mean for me as a music teacher?

The diagram on page 8 captures the learning process that you will need to support in order to ensure that pupils secure their functional skills. This process is not linear but cyclical and should respond to the needs of the learners and inform their future learning.

Effective teaching will enhance the development of skills. Pupils need planned opportunities to 'have a go' – to select from and experiment with the skills they have learnt elsewhere in the curriculum, applying them with an increasing degree of independence to new and varied contexts. These should have both relevance to the learner and a real purpose in relation to the subject.

Through peer- and self-assessment and teacher feedback, pupils then need to reflect on the progress they are making and to identify particular aspects of their skills development that need further reinforcement.

What functional skills can be developed and applied to music?

Musical processes such as performing, composing, listening, reviewing and evaluating provide rich opportunities for pupils to draw from and apply a range of functional skills, although some skills will be more appropriate than others. The increased emphasis on integrating these processes in meaningful musical contexts means that music teachers will naturally be providing more open-ended, problem-solving tasks that require pupils to take greater ownership of their learning to:

- initiate, develop and refine their own musical ideas
- discuss, justify and evaluate their musical interpretation
- create links between their music learning inside and beyond the classroom.

Pupils develop competence and confidence in using functional skills in an interrelated way. Their functionality develops over time as they learn to select and apply the skills needed to tackle particular tasks. Subject teachers can support this process by ensuring that pupils have access to the full range of skills. The following tables contain a few examples of ways in which functional skills can be deployed in music.

Functional English

Learning through talk, from text, through music and through writing about music will be integral to this process, but in particular pupils will need to deploy specific functional English skills. For example:

Functional English	Example of how applied in music
Make relevant and extended contributions to discussions (Speaking listening and communication)	When responding appropriately to others' musical viewpoints or interpretations
Utilise information contained in texts (Reading)	To obtain and utilise relevant information related to musical content
Use language, format and structure suitable for purpose and audience (<i>Writing</i>)	When discussing the outcomes of their musical work

Functional mathematics

Mathematical skills of **representing**, **analysing** and **interpreting** can be used and developed in a wide range of ways through musical activities. For example:

Functional mathematics	Example of how applied in music
Extract and interpret information from tables, diagrams and charts (Interpreting and communicating)	To develop a wider musical understanding of music's influence on national and global culture
Obtain answers to practical problems (Analysing)	When investigating about rhythm, time signatures, beat matching or sampling
Use mathematical patterns (Representing)	As a stimulus to composition

Functional ICT

Music provides a rich vein of opportunity for pupils to use, apply and secure ICT skills in new contexts. For example:

Functional ICT	Example of how applied in music
Select and use interface features effectively (Using ICT)	When exploring and combining musical ideas in new ways
Select information from a variety of ICT sources (Finding and selecting information)	When finding specific pieces of music to compare and contrast musical styles and interpretations
Use field names and data types to organise information (Developing, presenting and communicating information)	When managing multiple sound files contributing to a soundtrack

Developing functional skills in music

How can I secure the development of functional skills within my lessons?

As a music teacher you can support a cohesive and planned approach to the skills development of your pupils by:

- familiarising yourself with the functional skills criteria (see reference on page 3)
- talking to your colleagues, for example those in the English, mathematics and ICT departments, about how and when certain functional skills are being taught
- making clear from the beginning of a teaching sequence both the subject learning objectives that will need to be achieved and the functional skills that will be developed and applied
- referring at regular intervals in lessons to the objectives and to the functional skills that are being used, in order to encourage pupils to assess their progress and to inform where they need to focus next
- designing problem-based activities, both within music and where possible in conjunction with other subject areas, that provide pupils with the opportunity to make choices about which functional skills they will use, individually and in combination, to seek solutions to challenges that are real, relevant and purposeful
- encouraging pupils to reflect on their learning, using probing questions that ask them to identify how they have used their functional skills and how they can transfer and apply these skills to other contexts within and beyond music and the school.

What's in this booklet?

Three teaching sequences

The booklet contains three worked examples of teaching sequences that support how an organisation might embed and support the development of functional skills within music as follows:

- 1. Key Stage 3 teaching sequence: Creating an internet radio programme
- 2. Key Stage 3 teaching sequence: Film music
- 3. Key Stage 4 teaching sequence: Live multi-track recording

Each teaching sequence exemplifies three key principles:

- Problem-solving needs to be at the core of planning for functional skills.
- Real, purposeful and relevant contexts are essential for engagement and applied learning.
- Supporting pupils to progress and use functional skills independently is the ultimate goal.

Functional skills focus

The teaching sequences support the development of a range of functional skills, for example speaking and listening as well as reading and writing. In mathematics pupils will usually deploy the skills of representing, analysing and interpreting in an integrated way to solve problems. Similarly, the functional skills of using ICT sytems, finding and selecting information, developing, presenting and communicating information will also be used together.

However, within each sequence particular functional English, mathematics and ICT skills have been highlighted within the learning focus to show how they can be explicitly developed and applied. Music teachers would need to consider how, over a period of time, teaching sequences support the development and application of a broad skills set.

Functional skills progression

In line with the English, mathematics and ICT programmes of study, functional skills have been mapped at level 1 to the Key Stage 3 examples and at level 2 to the Key Stage 4 example. However, it is important to note that these are target levels to be achieved **at the end of** each of these key stages and that some learners will be working towards securing their functional skills at lower levels, and some at higher. The teaching sequences can be tailored to the needs of your learners as appropriate.

A learner's **level of performance** in functional skills and the **level of demand** of a task depend on the interplay of four factors which are critical to success:

- the **complexity** of tasks and problems and the contexts in which they are embedded
- the **technical demand** of the content that might be applied in these contexts
- a learner's level of **familiarity** with the type of task or problem and context
- the level of **independence** required of the learner.

The need for **problem-solving** underpins all of them. The four factors are a key to reflection on **progress** in functional skills. For more detail see the diagram on page 8 and visit the Functional skills qualifications criteria on the Ofqual website.

Personal, learning and thinking skills

Functional skills and personal, learning and thinking skills work together to build independent, confident and successful learners. Therefore, references to opportunities to develop specific personal, learning and thinking skills have also been provided.

For more information relating to personal learning and thinking skills visit: http://curriculum.qcda.gov.uk/key-stages-3-and-4/skills/plts/

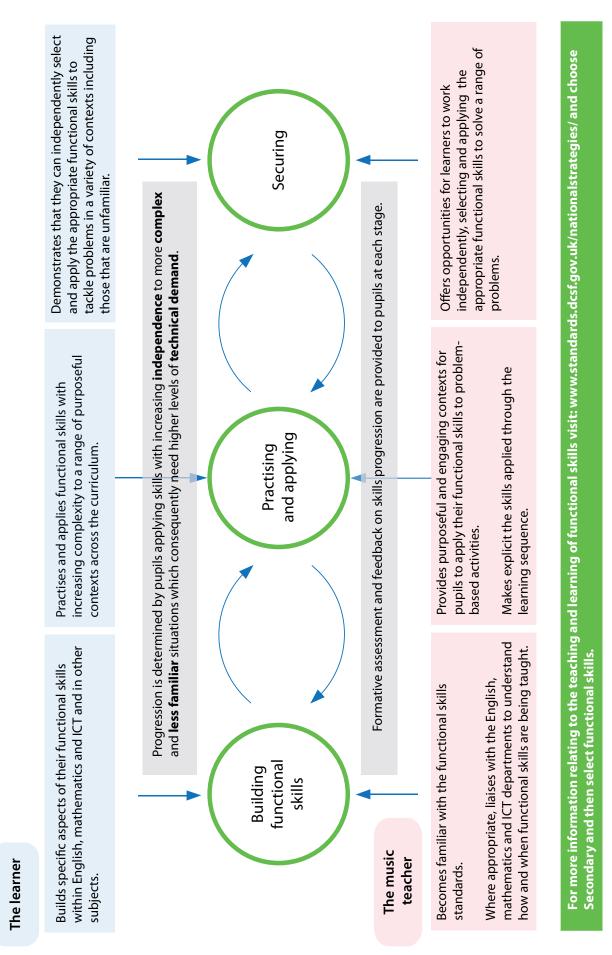
How can I use this booklet?

You can use the examples that follow, plus the additional information contained within this booklet, to:

- provide ideas that will inform your own planning (see planning tool on page 18)
- open a dialogue with teachers in your school who have the primary responsibility for delivering functional skills to find out more
- begin a discussion with other colleagues within your department about how to enhance functional skills development within music lessons
- raise challenges and opportunities concerning working within and between subjects in your organisation.

For the key to the functional skills references that have been used in each context please see the grid on page 2.

Functional Skills Support Programme Developing functional skills in music



Developing and securing functional skills

Context 1: Key Stage 3 – Creating an internet radio programme

Aims and overview

This module will enable pupils to develop selected functional skills in an appropriate manner as part of a series of musical activities focused around the construction of a short internet radio programme. This module is often taught as part of music in Year 9 and will build on basic musical skills that the learners have developed earlier in the key stage.

The big question

How has the internet transformed radio broadcasting?

Learning focus – music

Pupils should be able to:

- create, record, download and manipulate sounds (samples) using audio recording and editing techniques to produce new sounds designed for radio
- develop an awareness of audio imaging and designing, creating and mixing sounds to achieve an audio identity
- gain familiarity and confidence using new vocabulary for the context of an internet radio broadcast
- learn about copyright laws, royalty-free music and how to access musical materials legally using the internet.

Learning focus – functional skills target: level 1

This teaching sequence supports the development of a range of functional skills. However, particular functional English, mathematics and ICT skills have been highlighted and annotated below to model for illustrative purposes how they can be explicitly developed and applied.

English	Mathematics	ІСТ
Speaking, listening and communication, reading and writing	Representing, analysing and interpreting	Using ICT, finding and selecting information, developing, presenting and communicating information
<i>Writing</i> : Write documents to communicate information, ideas and opinions, using formats and styles suitable for their purpose and audience.	<i>Analysing</i> : Apply mathematics in an organised way to find solutions to practical problems for different purposes.	Finding and selecting: Use search techniques to locate and select relevant information; select information from a variety of sources for a straightforward task.

Functional Skills Support Programme Developing functional skills in music

	Stage and focus	Learning outcomes
	Stage 1 – The context	
FS.ICT.L1/F&S	In this module, pupils will create a short internet radio programme. They will compare internet broadcasting with traditional, mass-media broadcasting outlets.	Pupils use search techniques to locate and select relevant information.
Search engines, gueries	Ask pupils to search for and listen to various web-based radio stations, identifying their target audiences and the use of sound to create an audio	information.
PLTS Independent enquirers FS.ICT.L1/F&S Recognise	identity. Identify which are easiest to access and look at the role commercials, competitions and simultaneous chat-room openings play in providing either an income for the radio station or real-time opportunities for listener interaction with the radio station. Consider with the pupils how the internet can be used to bypass mass-media broadcasts and tell a personal story or a positive news story. Pupils should collect examples of their findings in the above tasks and compare and contrast these with traditional mass-media approaches through a short writing task, perhaps using connectives (e.g. 'on the other hand', 'moreover', 'in	Pupils demonstrate that they have taken account of currency, relevance, bias and copyright when using selected information in their writing activity.
currency, relevance, bias	contrast') to clarify ideas.	
and copyright when selecting and using information.	Stage 2 – Research and exploration Demonstrate several short pieces of music that combine music with a voice-over and/or sound effects (sound FX) that are used to identify products. Emphasise that the listener/audience will automatically identify this short sound clip with	Pupils demonstrate an effective plan showing how they will organise
FS.Eng.L1/W Write clearly	the show/film genre. These idents/audio identifiers often contain a montage of short sound clips/effects, a reoccurring melody and a prominent voice. Pupils	their work.
and coherently, including an appropriate level	could carry out a search for American radio station idents or can be directed to a specific site from the resource list.	Pupils evaluate the sources and what they reveal through
of detail.	Pupils should decide on a name for their radio station and plan roles within their group. Using appropriate sequencing software or recording equipment, they	clear presentation of points of view and
FS.ICT.L1/F&S Search engines,	should create and record a sonic identifier for their station that is less than 10 seconds long, using sound effects, a simple melodic theme and a voice-over	information.
queries	announcing the station's name. Each group should share their audio identities with the class and relate the compositional processes they have used.	
PLTS		

Team workers

The National Strategies Functional Skills Support Programme Developing functional skills in music

Stage and focus	Learning outcomes		
Stage 3 – Deploying ideas and information			
Pupils should write a short script for the news content of their radio programme, using standard radio script layout, if accessible.	script layout, if accessible. coherently, using an		
Using a range of ICT and music technology, pupils design the following musical elements:	appropriate level of detail.	FS.Eng.L1/W Use language, format and structure suitable	
 a jingle lasting less than 15 seconds that introduces a 'Positive News' show on their station 	Pupils demonstrate	for purpose and audience.	
 stingers to punctuate the various elements within their radio programme and also to close the show 	that they can apply appropriate editing techniques to digital		
 sound beds to underscore vocal content or news scripts for their show. (Sound beds should allow room for voice-overs and the narrative that the media producer may wish to add to the production.) 	audio content.		
Pupils should mix their script and the above music elements effectively, ensuring that the total mix is no longer than two minutes. Through listening to a range of sample internet broadcasts, they analyse the lengths of the individual musical elements (e.g. by choosing to use average lengths and the proportions of time	Pupils use the timing data to shape their own compositions appropriately.		
spent on these elements in a typical two-minute segment) to plan the shape of their own compositions. They will need to ensure that the timings of the discrete musical and spoken elements fit together within the overall time-frame for the programme. The final mix should be saved in an appropriate file format for sharing with the class and for distribution online.		FS.Ma.L1/ Analysing Measure and record time data and analyse then	
Stage 4 – Consolidating and reflecting (moving towards functional skills		using simple totals, averages	
level 2) Each radio programme is played to the group. Pupils evaluate their own and others' work against agreed criteria. They consider the effectiveness of their work in terms of both the sonic/musical outcomes and how the target audience might perceive the content. They reflect on successes and areas for improvement,	Pupils write concisely and persuasively, drawing on key evaluative data.	and proportions PLTS	
detailing why certain aspects work and what processes/actions could be put in place to create a better show.		Reflective learne	
Extending			
 Pupils could design a podcast using the techniques focused on during this module, with content which reflects their own hobbies or interests. 			
• The module process could be adapted to include visual content, thereby becoming a short internet- based film to be uploaded to a video-hosting site.			
Useful resources			
• http://voiceovers.edenproductions.co.uk Click on 'Samples' to find a selection of mp3 files.			
 www.bbc.co.uk/newtalent Go to the 'Drama' and click on 'Essential tips' for advice on sound production and other techniques. 			
• www.tophour.com Visit this site to find a large collection of American radio station idents.			
• www.name.org.uk This is the website of the National Association of Music Educators. Go to 'Projects' and click on 'KS3' to find support materials for the National Curriculum for Music (Key Stage 3).			
• www.ucan.me.uk This site provides free online courses for music education.			
www.teachingmusic.org.uk This is a networking site for music educators, and includes discussion forums and resources.			

Functional Skills Support Programme Developing functional skills in music

Context 2: Key Stage 3 – Film music

Aims and overview

In this module pupils will work in groups to produce a soundtrack for a piece of film. The module has obvious links with the art and ICT curriculums, but other cross-curricular links can be developed through the selection of different pieces of film and exploring their contexts through the concept of an 'environmental perspective'. The module of work is designed for Year 7 pupils.

The big question

What are the musical elements of a film's soundtrack? How do they combine to enhance the overall expressive effect of a short film sequence?

Learning focus - music

Pupils should be able to:

- develop an awareness and understanding of how sound and image can work together for expressive effect
- identify, construct and combine different types of musical materials (including sound FX and sound beds) within a film soundtrack
- use classroom instruments with appropriate technique and control to perform their musical ideas in a live performance.

Learning focus – functional skills target: level 1

This teaching sequence supports the development of a range of functional skills. However, particular functional English, mathematics and ICT skills have been highlighted and annotated below to model for illustrative purposes how they can be explicitly developed and applied.

English	Mathematics	ІСТ
Speaking, listening and communication, reading and writing	Representing, analysing and interpreting	Using ICT, finding and selecting information, developing, presenting and communicating information
<i>Speaking and listening</i> : Take full part in formal and informal discussions and exchanges.	<i>Representing</i> : Select information in an organised way to find solutions.	Developing, presenting and communicating information: Enter, develop and refine information using appropriate software.

	Stage and focus	Learning outcomes
	Stage 1 – The context	
FS.Eng.L1/SLC Make relevant and extended contributions to discussions, allowing for and responding to	Choose several short pieces of film, each between 30 and 45 seconds long. Play each of the films to the pupils without any musical accompaniment. Introduce the term 'environmental perspective' in relation to the films. (This term relates to the background context within which the action of the footage takes place. It encompasses the scenery, viewpoint, expressive effect and other elements that a director has sought to establish through their choice of shots.)	Pupils interpret, through sharing ideas, how a particular perspective in film is conveyed.
others' input. FS.Ma.L1/ Representing Decide how to use - time measures and notation.	Ask pupils to work in groups to discuss how the director has sought to portray the environmental perspective of each film. Select one piece of film. Ask pupils to consider how they can use mathematical skills to help them plan a soundtrack, ensuring the elements occur at the right places (e.g. through constructing a timeline showing the key 'trigger points').	Pupils decide how to use appropriate scales, degrees of accuracy and labels to represent a timeline.

Stage and focus	Learning outcomes	
Stage 2 – Research and exploration		
Pupils develop sounds beds and sound effects for their film sequence's sound design. Realising the potential of sound	Pupils show their ability to link sound to particular effects through their	
Realising the potential of sound is a key skill drawn from the work of sound	presentation.	PLTS
designers. There are many examples of sound designers using some of the strangest sound sources to produce particular effects. Pupils should use classroom instruments and other found objects to create a large range of sounds. Each 'sound idea' should be notated in a simple way. Each sound idea should be timed (to the nearest second). Encourage pupils to create short sound ideas that combine instruments or found sounds together in imaginative ways. Software can be used to support this activity. Pupils present a selection of their ideas to the class. They should evaluate their	Pupils access, organise, store, label and retrieve sound clips through working with files, folders and other media.	Creative thinkers FS.Eng.L1/SLC Present information/
work in relation to the choice of instrument/found object and their subsequent use of it.		points of view clearly and in appropriate
Classifying sounds for future use		language.
When pupils have come up with a range of ideas, ask them to reflect on their work. Do any of their sound ideas contain common elements? Is it possible to begin to group ideas together in interesting ways (e.g. 'short' sounds, 'metallic' sounds, 'dreamy' sounds, etc.)?		PLTS Reflective learners
Encourage pupils to create an online catalogue of sounds. Pupils should choose an appropriate system that would allow sounds to be grouped, searched, sorted and amended. In future years other pupils can add to the list of sounds. Pupils should record each sound as a 'sound bed' or 'sound FX'.		FS.ICT.L1/DP&CI Use given field names and data types to organise
Stage 3 – Deploying ideas and information		information.
Pupils plan how their sound beds and sound FX could fit within the film sequence. They will need to ensure that the lengths of the sounds they have chosen fit within the action as depicted within the timeline. Their sound beds will need to portray the particular environmental perspective that they have considered. The sound FX will need to relate closely to the pupils' chosen trigger points within the timeline.	Pupils produce sound beds which match the action of the film, using their annotated timelines and sound libraries appropriately.	Enter, search, sort and edit records.
Allow pupils time to rehearse their ideas. Through discussion, ask each group	ibidites appropriately.	FS.Eng.L1/SLC Make different
to justify the choices that they are making, prompting each other to clarify their decisions. Check that they are using appropriate instrumental techniques and that their performances are synchronised with the film sequence and match to their timeline. Pupils should consider whether or not the specific sound FX that they have chosen work well together with their overall sound bed.		 kinds of contributions to discussions.
Stage 4 – Consolidating and reflecting (moving towards FS level 2)		
Pupils produce a final mix for the soundtrack. This work should be saved in an appropriate format for the following evaluation and assessment process.	Pupils evaluate their own and others' work, drawing on key	
Using a series of evaluation questions, ask pupils to evaluate their own work through a short written task, relating it to their initial response to the film and their chosen environmental perspective. Peer-assessment processes can be used to help provide a greater range of feedback to each soundtrack.	evaluative data and using concise and persuasive writing.	FS.ICT.L1/DP&CI Adding simple editing, formatting and
		layout techniques to meet needs.

Functional Skills Support Programme Developing functional skills in music

Extending

- New technologies can be used to enhance the sounds made with classroom instruments or found objects. For example, pupils could use a Boss RC-50 to help loop and layer shorter sounds to create longer compositions; or an ME-20 to add effects to sounds, varying these in real time as their composition develops.
- Electronic percussion instruments, such as the Handsonic 10, contain many useful samples and loops that could be used. This approach would be one way to extend the module in line with the new secondary curriculum's requirement to make use of ICT within musical performance contexts.

Useful resources

www.radium-audio.com Visit this site to view sample brand audio.

www.filmsound.org/starwars/ This article on the sound design of *Star Wars* includes samples of various sound FX.

Context 3: Key Stage 4 – Live multi-track recording

Aims and overview

This module will enable learners to develop selected functional skills in an appropriate manner as part of a series of musical activities focused around the production of a multi-track, live recording. This module relates to each of the main GCSE specifications for music in Year 10 and will build on basic musical skills that pupils have developed in Key Stage 3.

The big question

What are the skills and techniques needed to produce a quality, live, multi-track recording?

Learning focus – music

Pupils should be able to:

- create a multi-track live recording of an ensemble of at least four musicians
- demonstrate how to plan a recording session, taking acoustical considerations into account as well as how to use a multi-track audio recorder, stereo and close microphone (mic) techniques to record a piece of music
- act as a creative and inspiring producer, developing good mixing and mastering skills.

Learning focus – functional skills target: level 2

This teaching sequence supports the development of a range of functional skills. However, particular functional English, mathematics and ICT skills have been highlighted and annotated below to model for illustrative purposes how they can be explicitly developed and applied.

indstrutive purposes now they can be explicitly developed and applied.				
English	Mathematics	ІСТ		
Speaking, listening and communication, reading and writing	Representing, analysing and interpreting	Using ICT, finding and selecting information, developing, presenting and communicating information		
<i>Speaking and listening:</i> Make a range of contributions to discussions and make effective presentations.	<i>Analysing</i> : Apply a range of mathematics to find solutions.	<i>Using ICT</i> : Select, interact with and use ICT systems safely and securely for a complex task in non-routine and unfamiliar contexts.		
Stage and focus		Learning outcomes		
Stage and focus Stage 1 – The context		Learning outcomes		
Stage 1 – The context This module introduces the concept and mastering techniques to captur (for any musical ensembles). The first live multi-track recordings is an und in pairs and research the following a 'diffusion'. Each pair should create a	ts of stereo and close microphone, mix re an accurate representation of live so st consideration in producing high-qua erstanding of acoustics. Ask pupils to acoustical terms: 'reflection', 'absorptic n A2 poster describing their term (incl a each case). They should present these	xing Pupils consider bund complex information ality, and give a relevant, work cogent response in on' and appropriate language. luding a		

FS.Eng.L2/SLC Present information and ideas clearly to others.

Functional Skills Support Programme Developing functional skills in music

	Stage and focus	Learning outcomes
	Stage 2 – Research and exploration	
FS.Ma.L2/ Analysing Use measurements and scale drawings to represent a 3-D space.	The use of acoustic treatments can help prepare a better acoustical environment for recording. Using appropriate software, pupils should consider how they can use geometrical skills to represent the recording space to help them consider the sound waves' paths and how they will be affected by acoustic treatment. Introduce the concept of 'ambient miking' by listening to various musical extracts (including a classical ensemble, a jazz group and an early pop band). Demonstrate different stereo microphone techniques, such as XY and AB pairs. Get pupils to connect these to a digital multi-track recorder, set recording levels and pan accordingly. Experiment with placement of the microphones in the room to capture a sound source. Using a scaled plan of the recording space, pupils should decide how to map the positioning of the various microphone placements and their potential operational ranges. Using the class as the musical ensemble, demonstrate how to produce a live sound recording. Consider:	Pupils use, convert and calculate using metric and, where appropriate, imperial measures to produce a working model. Pupils select, interact with and use ICT systems safely and securely for a complex task in non-routine and unfamiliar contexts.
	 microphone placement (close and ambient microphone techniques) 	Pupils recognise and use 2-D
	 sound spillage between instruments acoustic treatment (enclosures for the drums/vocalist). 	representations of 3-D objects.
	Set up the multi-track recorder to record and demonstrate how to prepare to record multiple inputs for a range of instruments.	
FS.ICT.L2/Using ICTSelect and use interface features and system facilities effectively to meet needs. Select and adjust system settings as appropriate to individual needs.FS.Eng.L2/SLC Consider complex information and give a relevant, cogent response in appropriate language.PLTS Self-managers	 Stage 3 - Deploying ideas and information Pupils should produce a two-minute, live sound recording of an ensemble containing at least four musicians on four tracks on the digital multi-track recorder. Overdubbing should not be used. Pupils will need to use close and ambient microphone recording techniques and consider room ambience and acoustic modification when recording. They will need to mix down their recording to produce a balanced stereo master recording. To do this, they will consider Equalisation (EQ), Effects, Level and Pan during the mix down and mastering process. Pupils should prepare a detailed plan for all recording sessions which they can talk through using appropriate terminology to an interested participant (i.e someone they are working with), or someone outside the process, including a description of the intended final outcome. This will include technical information about the recording process; a list of resources, microphone choice and placement; and a schedule/timescale for the whole project work. Once the recording process has been completed, introduce the concept of mixing as a virtual 3-D process where: Level = X (vertical) axis 	Pupils select, interact with and use ICT systems safely and securely for a complex task in non-routine and unfamiliar contexts. Pupils demonstrate, through both written and oral presentation, understanding of the process, the technology and the effect of decisions they make.
PLTS Creative thinkers	 Pan = Y (horizontal) axis EQ = Z (applicate) axis. 	
FS.ICT.L2/Using ICT Select and use interface features and system facilities effectively to meet needs.	Pupils should prepare each track for the mix by applying appropriate effects (these will mostly be reverb based). They should balance the overall mix by adjusting level, pan and EQ. The final tracks should be mixed down to produce a balanced stereo master recording.	
Select and adjust system settings as appropriate to		

individual needs.

Stage and focus	Learning outcomes
Stage 4 – Consolidating and reflecting	
Pupils should write a final report outlining the recording processes completed above. They should include details of the following:	Pupils reflect on and evaluate their progress and ways of working through the writing of
 consideration of recording environment, acoustics and any adjustments made 	
microphone choice and placement	a report.
 the recording process – how they worked with the musicians to produce the final intended outcome 	
 what they have learnt during this recording project and what they would do differently in future recording sessions 	
 what they have learnt about themselves as a producer and how their functional skills have been utilised and developed. 	
Extending	

Extending

- This task could provide a basis for further live sound recording inside and outside the studio.
- Pupils could extend audio recording techniques to include overdubbing and other post-production digital recording processes.

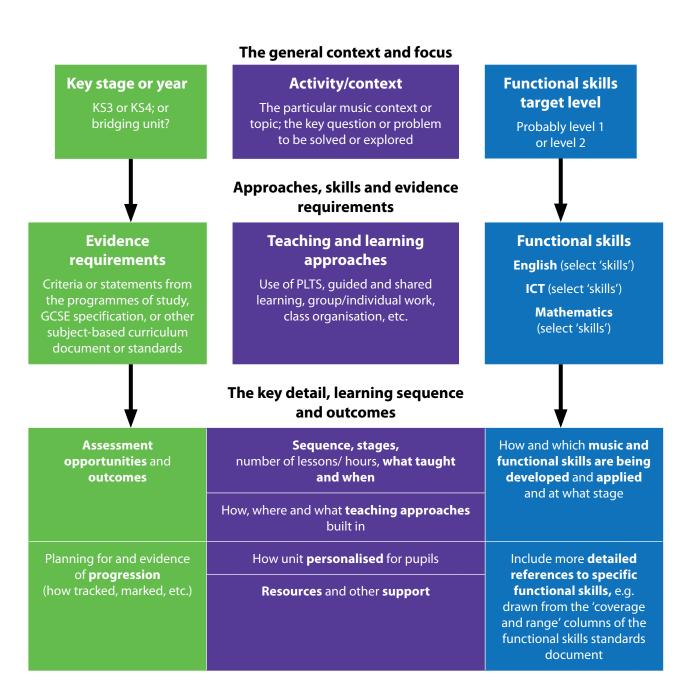
Useful resources

- **http://homerecording.about.com** Useful information can be found by following the links to 'Build a studio' and 'Microphones 101'.
- **http://en.wikipedia.org/wiki/Microphone_practice** This article contains information on several of the techniques used in the above task.
- www.tweakheadz.com/perfect_mix.html This site includes information on mastering and postproduction.
- **www.name.org.uk** This is the website of the National Association of Music Educators. Go to 'Projects' and click on 'KS3' to find support materials for the National Curriculum for Music (Key Stage 3).
- **www.ucan.me.uk** This site provides free online courses for music education.
- **www.teachingmusic.org.uk** This is a networking site for music educators, and includes discussion forums and resources.

Functional Skills Support Programme Developing functional skills in music

Functional skills in music: A planning process

The planning diagram below provides a structure for planning a music activity or topic that integrates functional skills. Note that it starts from the music activity or topic and that the functional skills are an integral part in the successful completion of the activity. It is a mistake to distort a music activity simply to ensure that it includes functional skills; however, the inclusion of functional skills may well allow for a greater degree of independent learning and skills application. A cross-curricular model would look different insofar as the focus would be on more than one subject area.



Resources

Literacy and learning in music DfES 0664-2004G

The purpose of this booklet is to help music teachers support the development of:

- learning through talk
- learning from text
- learning through writing.

Leading in learning: Exemplification in music DfES 0057-2005 G

The purpose of the booklet is to demonstrate how music teachers can contribute to the development of pupils' learning and thinking skills. It provides examples of the 10 teaching strategies contained in the Leading in learning teachers' handbooks for Key Stage 3 Ref: DfES 0035-2005G and Key Stage 4 Ref: 2111-2006DWO-EN, which are the main source of guidance for Leading in learning.

ICT across the curriculum: ICT in music DfES 0186-2004G

The **ICT across the curriculum** (ICTAC) pack is a set of materials designed to promote the use of ICT across all subjects in schools. The ICT in music guide is designed to raise awareness of how ICT can be applied and developed in music, analyse the opportunities that exist in music for developing and applying ICT and consider how ICT can enhance the teaching and learning of music.

Pedagogy and practice: Teaching and learning in secondary schools DfES 0423-2004G

The **Pedagogy and practice** materials consist of a suite of 20 study guides supported by a series of video sequences on DVD. All the guides are helpful in the development of functional skills and independence, but those with particular relevance include: Teaching models; Group work; Guided learning; Active engagement techniques; Developing reading; Developing writing; Using ICT to enhance learning; Developing effective learners.

All of the materials listed are available for download from the National Strategies web area, along with the 10 other subject booklets in this series and a suite of e-learning modules.

Visit: www.standards.dcsf.gov.uk/nationalstrategies for subject-specific National Strategies materials for music, including training modules and sample planning, select foundation subjects and then music.

A dedicated website for the Functional Skills Support Programme (FSSP) provides a first point of contact for all functional skills support. It includes the Learning and Skills Improvement Service (LSIS) training modules for functional skills for the post-16 sector and a series of booklets to support teaching functional skills in diplomas. The FSSP website can be accessed at: www.fssupport.org.

For case studies and further guidance about planning for functional skills, visit: http://curriculum.qcda. gov.uk/key-stages-3-and-4/skills and select functional skills.

Acknowledgement

The Importance of music, National Curriculum 2007. © Qualifications and Curriculum Authority. Used with kind permission.

Audience: Subject teachers in secondary schools Date of issue: 02-2010 Ref: **00071-2010BKT-EN**

Copies of this publication may be available from: **www.teachernet.gov.uk/publications**

You can download this publication and obtain further information at: **www.standards.dcsf.gov.uk**

Copies of this publication may be available from: DCSF Publications PO Box 5050 Sherwood Park Annesley Nottingham NG15 ODJ Tel 0845 60 222 60 Fax 0845 60 333 60 Textphone 0845 60 555 60

© Crown copyright 2010 Published by the Department for Children, Schools and Families

Extracts from this document may be reproduced for non-commercial research, education or training purposes on the condition that the source is acknowledged as Crown copyright, the publication title is specified, it is reproduced accurately and not used in a misleading context.

The permission to reproduce Crown copyright protected material does not extend to any material in this publication which is identified as being the copyright of a third party.

For any other use please contact licensing@opsi.gov.uk www.opsi.gov.uk/click-use/index.htm





department for children, schools and families