

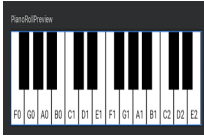
We are Rhythmic

Prior Knowledge

You will know how to use the touch interface on an iPad / tablet / phone.

You will have developed their programming skills in **Unit 1.1: We are treasure hunters.**

Key Vocabulary:

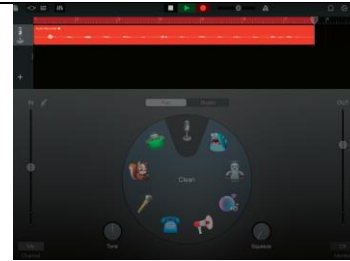
audio		sound, such as spoken narration	repetition		programming construct which allows a group of instructions to be repeated a number of times, or until a certain condition is met
digital		storing, processing or transmitting information as numbers, such as sound pressure through a microphone	sample		snapshot of a sound pressure value
message		a way for sub-programs such as sprites to pass information to other sub-programs, such as an instruction to start	sequencer		software for creating repeating patterns of sounds, typically drums and other percussion instruments
microphone		an input device converting sound pressure into data	speaker		output device converting data into sound pressure; similarly, for headphones and earphones
MIDI		a computer audio format or standard in which the pitch, duration and volume of individual notes is specified	sprite		graphical character in a program that can be given its own sequence of instructions
piano roll		used now for a visual representation of music where the pitch and duration of each note is shown	track		recording of audio from one microphone, or the instructions for digital music to be played on one instrument or group of instruments
			virtual		representing some aspect of the real world in or through a computer

Key Skills / learning:



Session 1: Recording five sounds for the cat sprite in ScratchJr

How do I write simple algorithms in Scratch?



Session 4: Making a recording in GarageBand

How do I record sound using GarageBand?



Session 2: Recording audio for different animal sounds

How do I record audio using Scratch?



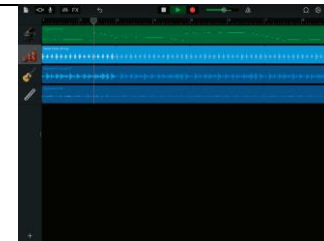
Session 5: Creating a percussion pattern in GarageBand

How do I create a percussion pattern in GarageBand?



Session 3: Programming the sprite to repeat meowing 4 times

How do I play back this audio in Scratch?



Session 6: Creating a multi-track recording in GarageBand

How do I record a tune in GarageBand?

Key Applications (apps)



Garage Band



Scratch Jr

Next Steps

You will build further on their programming skills in **Unit 2.1: We are astronauts.**

You will build on their knowledge of using percussion instruments to create a rhythm in **Unit 3.3: We are presenters.**

You will further develop their audio skills in **Unit 4.3: We are musicians**