



Coleman Primary School

Year 4 Spring 1 Knowledge Organiser

Computing—We are musicians

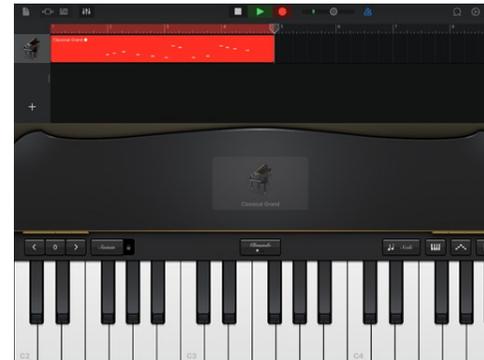
You will learn...

- to create a repeating percussion rhythm
- to play along using virtual instruments
- to perform electronic music using pre-recorded loops

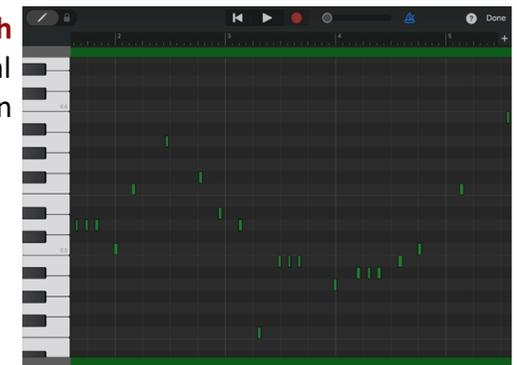
Key Vocabulary: We are musicians

beat sequencer: interface for creating a repeating percussion pattern	touch instrument: GarageBand interface for instruments where you touch the screen to play the notes
GarageBand: iPad app which allows you to create music	tracks: GarageBand tool for combining music made in other parts of the program
live loops: GarageBand tool for creating electronic music	velocity: here, the volume of notes
piano roll: interface for controlling the pitch and duration of notes	voice: in this context, the virtual instrument chosen to replay music

Virtual Instruments

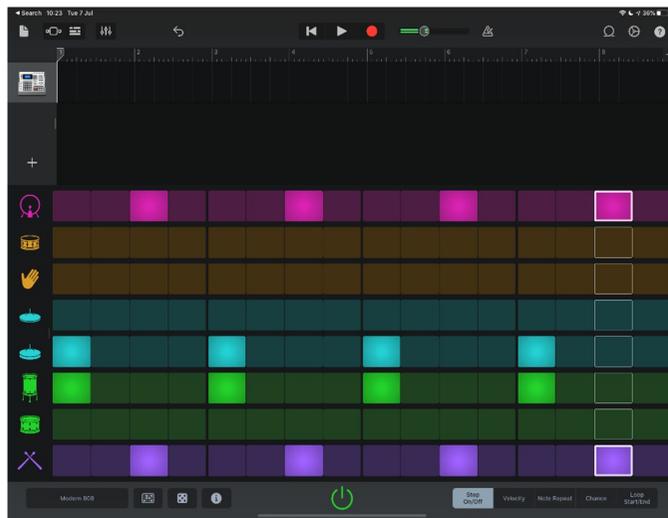


GarageBand has a function called **touch instruments**, where you can play virtual instruments by touching and tapping on the iPad screen. You can record what you play and add different instruments together.



You can then view and edit what you have recorded in the **piano roll** mode.

Using the Beat Sequencer



Using the **beat sequencer** in **GarageBand**, you can create a repeating percussion pattern, showing at which beat in a set of bars individual instruments are hit.

The coloured blocks show when the sound will be played. Each row represents a different instrument, shown by the pictures on the left hand side.



Live Loops

Live loops is a great tool for creating electronic music, such as RnB. You use pre made loops to create your own music. Drummer loops are **yellow**, instrument/beat sequenced loops are **green** (can be viewed in **Piano Roll** View), **blue** loops are audio recordings. You can tap loops on and off, like in **beat sequencer**.



Computing Skills Progression

In Year Three you learnt to...

- use sequence in programs; work with various forms of output
- use a variety of software (including internet services) on a range of digital devices to design and create a range of content
- use technology safely and respectfully, recognise unacceptable behaviour

In Year Four you will...

- use sequence and repetition in programs; work with inputs and outputs
- use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of content that accomplishes given goals
- use technology responsibly, recognise acceptable/ unacceptable behaviour