**The Scratch Music Box Pack**

Welcome!

*Hints for teachers*

If you are reading this – you have three Scratch templates:

Ritual1.sb2

Ritual2.sb2

Ritual3.sb2

In order to use the software, you must have Scratch2 installed (offline version) on your computer or run <https://scratch.mit.edu/projects/editor/> (online version)

Each files use the q w e r keys as a means of triggering a musical sequence. The space bar stops everything.

*Hints (for each scratch template):*

Start your piece (starting the metronome) by pressing ‘q’

Add rhythmic layers over the top by pressing ‘w’ ‘e’ or ‘r’

Press the keys in time with the metronome or deliberately press them out of time (see what happens!)

**Ritual1**

Simple metronome piece

**Ritual2**

This will give you some interesting rhythms using a pentatonic scale (the black notes)

**Ritual3**

More complicated rhythms, this time using a whole-tone scale

***Things to try!***

Each child may listen through headphones or through the internal speakers of a computer on their own. But why not build your own Scratch Music Box Orchestra?! If you have multiple computers in a room - try the templates simultaneously. It will create a wonderful ‘halo’ of mechanical music box sounds! Can you get the children to start at the same time (in sync)? What happens if they can’t (this bits interesting!)?

We encourage you to hack the code! What does this mean? Well, you are welcome to simply play with the code (press q w e and r) and make your machine music but children (and staff) should change the code themselves and personalize it.

Change the metronome speed – set tempo to [n]

Change the sound – set instrument to [n] (default = 17, Music Box)

Change any of the pitches - play note [n]

*For the adventurous or more musically able…*

Add new blocks – ‘play note’ and rest for’ to change the rhythm. Listen carefully to the result…

Use a sample (a short recording made by the children) rather than the ‘play note’

Use it as a starting point. Then save your own files!

***Share your music, video and code***

File/Record Project Video (save as a video file)

Or…

<http://wiki.scratch.mit.edu/wiki/Project_Sharing> (load your code onto the Scratch website)

And…

We would love to see and hear your creations! By all means email them to: rob@robgodman.com

You can get technical support for the three Scratch templates at the same email address.

[www.robgodman.com](http://www.robgodman.com)