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| **Date:** Week 5 | **No. Of Pupils:** 30 aprox | **No. Teachers:** 2 | **Duration:** 1 hour |

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| **Role of Teaching Assistants:**  To provide support to student’s who were absent or struggling. To participate in group performances and discussion. Advanced peers should also be used to assist other peers.  Aid with set up and take down of equipment. |
| **Prior Knowledge of Pupils:**  An understanding of how to operate a Raspberry Pi and write basic coding using the application Sonic Pi.  Commands: *Play, Sleep, Run, use\_synth, loop do, end, use\_sample, sleep sample\_duration, in\_thread* |
| **Contents: Lesson 5 of 11(12)**  Students will engage with the idea of serial music and attempt to create their own using the *rrand* and *.choose* function |
| **Vocabulary/keywords**  Commands: *rrand, .choose*, serial music |
| **Anticipated problems:**  Issues with Raspberry Pi (check all Pi’s before use)  Possibility of absence students (peers/teaching assistants to assist with catch up) |

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| **Learning Objectives**  **1.** To successfully use the *rrand* and .*choose* feature.  **2.** To understand the compositional use of random notes.  **3.** Plan the final composition. | **Learning Outcomes**  **All** pupils would be able to use the rrand/.choose feature  **Most** pupils would be able to understand the compositional use of this feature  **Some** pupils would be able to directly incorporate it into their final project. |

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| **Resources**  Example of Serial Music, Assessment briefs and criteria. |
| **Risk Assessment**  Medium – Trip hazard due to multiple cables, use of electrical equipment. |
| **Ultimate Learning Outcome**  **1.** To compose a piece of music using Sonic Pi  **2.** To create a live performance as a group using Sonic Pi  **3.** To understand how a computer can be used as a musical instrument |

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| **Timing** | **Task/Activity** | **Resources** |
| **Engage** | Introduction to *rrand* feature through analysis and explanation of a piece of serial music. | Example of Serial music (*see resource pack for ideas*) |
| **Explain/**  **Explore** | Demonstrate the *rrand* and *choose* feature and how to use it within a composition. Students should try this on a blank workspace | Examples of drum loops |
| **Explain** | Introduce final composition task, allow the students to choose from 3 briefs based on the knowledge learnt so far. | (*see resource pack for brief ideas*) |
| **Explore** | In pairs students should begin to plan their composition based on one of the briefs, ideas should then be shared with the class. |  |
| **Evluate** | Review of all terms learnt so far and their functions. Engage in discussion over relative musical terms/ideas. |  |

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| **Equipment**  x15 Raspberry Pi, x15 Monitors, x15 keyboards and Mouse, x30 sets of headphones, x15 headphone splitters, x15 SD cards, x15 power supplies. |

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| **Possible Questions for Reflection/Recommended Resources** |
| Who is in control of the composition in serial music?  Are you in control using the *rrand* function?  What is a soundscape?  How would you describe the sound of a city and show this in music?  Template ideas:  Existing song ideas: |

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| **Assessment** | **Assessment Criteria** |
| **Individual** – Using all knowledge gathered throughout the course students should create their own personal composition based around the suggested briefs listed (*Can be altered*).  **- Compose an original piece in any style.**  **- Compose a horror soundtrack for a film**  **- Rewrite a famous/well known song using Sonic Pi.**  Documentation on planning and development of the composition is also recommended to aid assessment. This can be completed via: written, audio diary, video diary. (*Due week 10*) | Use a system of 1-4 to assess different aspects of the composition  **Technique**  **1** (*easy*) – correct use of commands: play, sleep, loop do, end  **2** (*Intermediate*) – correct use of commands above plus: use\_synth, use\_sample,  **3** (*Upper Intermediate*) – correct use of commands above plus – in\_thread do, with\_fx, attack, release, sustain.  **4** (*Advance*d) – correct use of commands above plus: rrand, .choose, default.  **Structure/Texture**  **1** (*easy*) – use of 2-4 loops to create different sections  **2** (*Intermediate*) – The above plus use of multiple synths and instruments.  **3** (*Upper Intermediate*) – Use of threads to layer instruments in time  **4** (*Advance*d) – Advanced use of threads and instruments.  **Timbre/FX**  **1** (*easy*) – correct use of at least 2 FX  **2** (*Intermediate*) – the above plus altering parameters of FX throughout piece.  **3** (*Upper Intermediate*) – the above plus use of instrument manipulation.  **4** (*Advance*d) – the above plus combination of other features into FX such as rrand.  **Style/Write Up**  **1** (*easy*) – piece matches overall feel of brief.  **2** (*Intermediate*) – Clear sense of influences and application.  **3** (*Upper Intermediate*) – Detailed reflection using correct musical terms on piece.  **4** (*Advance*d) – piece stands on its own as a composition with a detailed write up explaining thought process of creation. |
| **Performance** – All students will engage in a soundscape performance at the end of the term. There will also be opportunity for students to conduct as well. Possible environments. (*Due week 11*)  - **Space, City, Forest, Underwater** | **Preparation**  **1** (*easy*) – inadequate preparation of 4 soundscapes.  **2** (*Intermediate*) – 4 basic loops for performance with a clear contrast in sound  **3** (*Upper Intermediate*) – use of advanced techniques to create soundscapes.  **4** (*Advance*d) – Loops display clear understanding of sounds in relation to music using advanced techniques  **Performance**  **1** (*easy*) – Compositions are played without interaction.  **2** (*Intermediate*) – correct use of faders to alter dynamics.  **3** (*Upper Intermediate*) – basic use of live coding within performance.  **4** (*Advance*d) – Advanced use of live coding potentially from a blank workspace during the performance. |