**PASS Session Plan**

**PASS Leader name: \_\_Zak Barker\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_28/08/19\_\_\_\_**

**Course: \_\_1701ICT – Creative Coding\_\_\_\_\_\_\_**

Session Objectives: What does this study group most need to accomplish in this session?

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| Arrays  Loops  Looping through arrays |

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| SESSION STRUCTURE | **Equipment/ material required** |
| **Opening and Agenda:**  Talk about JavaScript and how it fits into the wider world of programming  I want students to show me anything they’re proud of with their assignments. Using Codeshare. | Projector |
| **Activity 1:**  **Balls Example**  I’m going to program a small sketch from scratch. Each step I’ll be asking students what that piece of code is doing – it is all related to creating arrays and looping through them.  I won’t be explaining anything, I’ll have the students explain it back to me. | Projector |
| **Activity 2:**  **If group is Large - Split into groups**  I know some of the students are more advanced then ever so I’ll ask students who needs help with arrays – loops and putting the two together.  I’ll ask a more advanced student to take the group for arrays and another student to take the group for loops while I sit with the group who is working on putting the two together.  **If group is Small – Return Values and possibly exposure to objects**  Sit down with group and Run them through return value examples  Show them Syntax for objects and relate it for them. | Butcher Paper |
| **Study skill tip (integrated into activities):**  Programming in the p5 library is a small pond. When I was studying p5 I didn’t think I was programming, I thought I was just drawing. JavaScript is a full language unto itself and it is important for students to realise that they are actually programming and that all the skills they’re being exposed to now are highly transferable to the wider JavaScript language and further into programming in general. Students should know that knowing the p5 library means that they are programmers – just inexperienced ones. |  |
| **Session closure and ‘hook’ for next session:**  New data type – objects  Get excited |  |

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| **Evaluation of Activities:** |
| What worked well  Session went really well, code share was great to get input from the students. The balls example took up the whole session but it went very well and students seemed to grasp the ideas presented.  Really good takeaway for them to be able to copy the program for further use. |
| Improvements  It took quite a bit of time debugging the file, need to run through it a little more previously as – having the solutions right beside me didn’t really help coding live. It is nice that the students are able to help debugging though.  Second session was a one-on-one and those generally always go well. I essentially ask what they want to work on and hammer those concepts. |

Once completed please upload with your **full activities** to your folder on Google Drive by Monday 9:00 am