Scheme of Work: COLAB International

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| Time |  | Section | Break down | Remember |
| 0.00  (10 mins) |  | **Objectives**  Intro to Microbit - help each other  Create Microbit Musical Glove (after lunch)  Collaborate on a Musical piece | Demo |  |
| 00.10  (45 mins) |  | TECHNICAL SESSION #1 Introduction to the Microbit Creating scroll designs + animations Show + tell | Get your microbits out of the box, let play a game  Ice Breaker - x2 rounds  Go into session -  Microbit/Make code (colour/ of blocks & symbols)  Simulator  **Scroll name**  Design your own i**con/ animation** - show example(clock hands)  Use an input - read temp.  Explore the different input  Download code - name file and put in microbit to laptop  Watch this video - using gestures to activate thing and control music has become high tech.  Video - we are going to make our own Microbit version - obviously not so sophisticated but it will give you an understanding of some of the code behind.  After lunch you will make your own musical glove. | Powerpoint  Give everyone MI Power Board and everyone stands up  Use laminated squares and dots  Use cables - plug in  Set YouTube link |
| (10 mins) |  | BREAK | N/A - set up Sound boxes and symbols |  |
| 0.55  (45 mins) |  | TECHNICAL SESSION #2 Examples of Microbit glove Creating the Microbit glove Coding the Microbit with music | Have a look into your box - can you find a glove. Glove pre-sewed so you don’t have to sew your own - to save time lets get straight to the coding bit. First thing - go back to MakeCode and open a new project.  Input block  Now drag out Melody and play through them - chose your favourite and get it to play using an input. Use the simulator.  A melody is a sequence of notes - let try making our own melody.  It doesn’t have to be brilliant - we just explore and experimenting - please don’t feel you have to be perfect - try different things - if it doesn’t sound good - try something else.  Now plug in your MIcrobit, name and save your code. Flash to the microbit and experiments.  Show & Tell - what inputs did you use? Lets list them. | Take home boxes  Glove  MI Powerboard  Microbit/cable |
| 1.40  (2 hours) |  | TECHNICAL SESSION #3 Introduction to the collaborative piece Radio waves Creating the music + building the installation | Next we will be using our Microbit gloves differently - this time to send radio signals to other microbits on a music board to create music collaboratively.  Give out strips of code and show a demo of the Microbit sound boxes.  Explain that there are four microbits on each musical box and they have been pre-coded to play certain musical when they receive a radio message from your Microbit glove.  Explain & play sound:-  Harmony  Melody  Rhythm  Over to you - you each need to pick a Microbit to send messages to.  Get coding and use your musical gloves to create a musical piece with your group which you will perform at the end of the day. | Strips of code/ give out boards |
| 3.30  (30 mins) |  | Show & Tell | Each group to do a performance |  |
| 4.00 |  | Close |  |  |