Year 1 – Programming Toys

|  |
| --- |
| Prior Learning: Develops digital literacy skills by being able to access, understand and interact with a range of technologies, Completes a simple program on electronic devices, Begin to listdifferent IT in their home |

|  |  |
| --- | --- |
| Facts | Vocabulary |
| 1. **What are instructions?**  * Instructions are written for someone who needs to know how to do something. * They are written in step by step points. * They are written in chronological order. * They can be written in words or using pictures. | 1. program — a sequence of instructions/algorithm written to perform a task 2. debug— finding problems/mistakes in instructions/algorithms and fixing them. 3. chronological order— the order in which something has happened or is done |
| 1. **What is an algorithm/program?**  * An algorithm or program is a set of instructions completed in order to achieve a task. * Programs are created using programming language.   Some simple commands used are:  1. Forwards  2. Backwards  3. Left  4. Right | Bee-Bots can be programmed to go forwards, backwards, left and right.    Blue-bot_algorithms                   Some sets of instructions can have bugs or mistakes in them.   You have to find the bug and fix it.    Blue-bot_algorithms |
| 1. **What is debugging?**   A problem or error in a code is called a ‘bug’  If a program doesn’t work we look for the error and fix it.  This is called ‘Debugging’ |
| Youtube:    <https://www.youtube.com/watch?v=52ZuenJlFyE> - Bee-Bot introduction    <https://www.youtube.com/watch?time_continue=1&v=CGPjraqX_ac> - Debugging introduction |