Year 1 – Programming Toys

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| 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 |

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| 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

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| 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. Forwards2. Backwards3. Left4. 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  |