EYFS

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 Sequencing items using drag and drop on screen e.g. how to clean your teeth or creating a simple tune.

Year 1

- Following instructions, using buttons to control onscreen avatars in online games and software
- Moving toys using different methods (including controlling Beebots).



Programming unplugged activity – drawing pictures on paper using vague and specific instructions (to stress the importance of clear instructions within programming).

- Programming Beebots to solve problems/reach a given location.
- Predict the movement of the Beebot to help when sequencing more than one instruction.
- · Using an on-screen avatars.

Year 5

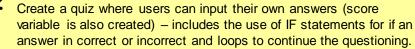
Exploring how items are controlled in different ways – levers, buttons, joy sticks, draw strings, etc... (control technology).

 Block based programming to move characters around the screen.

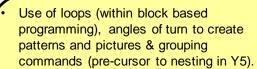
- Programming on screen avatars, by making choices, in order to differentiate between items.
- Investigate how sensors are used, as part of hardware, to support using programming to sort.
- Program simulations by altering variables and testing changes.



Year 2



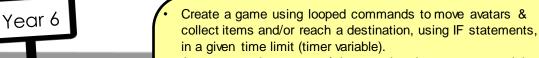
- Use Logo to create a repeated pattern. Alter angles of turn to create shapes and randomise movement. Use of nesting to create one overall program.
- Use block based instructions to program a robot to complete a simple activity (e.g. lifting a ramp or releasing a crane) using inputs (e.g. sound or button), outputs (the wheels and forklift) and sensors (infrared).
- Annotate a print screen of the completed program to explain how the programming works and any changes that have been made.
- Use sequential programming (FlowGrid) to control more than one output.



- Predict the outcome of new commands as a class.
- Use Logo to make turns in order to create a picture. Use textual programming to alter pen colour and fill shapes.
- Use sequential programming (FlowGrid) to program simulations using inputs and outputs.



- Program avatars (Scratch) to respond to a single input e.g.. using left click to collect items (including altering the angle of the characters as they move).
- Using Logo to create textual programming to create shapes (including use of repeat).



- Annotate a print screen of the completed program to explain how the programming works and any changes that have been made.
- Consolidation of creating a quiz/game that allows user input.
 List variables are used to provide the answers (as opposed to operators in the Y5 project).
- Using extensions in Scratch to translate text input into different languages.

