Broadacre Primary School

Computing Overview

	Autumn	Spring	Summer
Year 1	**Safe Use** How do we use technology safely? Why should some information be private?	**Algorithms** What is an algorithm? Can you create a simple algorithm with two or more steps?	**Create Programs** Can you programme a BeeBot to move in four directions?
Year 2	**Safe Use** What is a digital footprint? Where can you go if you are worried about something you see online?	**Algorithms** Can you create a clear, working algorithm on a digital device?	**Create Programs** Can you predict the outcome of your simple algorithm? Can you test your algorithm to see if it works?
Year 3	**Safe Use** What are the different ways to get help online? **Create Programs** Can you write a programme to move and spin a character?	**Develop Programs** Can you design and explain a longer sequence of instructions to move a character in number of ways?	**Using Programs** Can you combine sequences of instructions and procedures to independently log out, close down, log off and shut down?
Year 4	**Safe Use** How do we recognise acceptable and unacceptable use of technology? **Create Programs** Can you create an algorithm to move a character to a defined end point?	**Develop Programs** Can you experiment with a range of variables to control a model? Can you explain what you think will happen if a given algorithm is followed?	**Using Programs** Can you use software to create a podcast or audiobook? How can we enter data into spreadsheets?
Year 5	**Safe Use** How can we distinguish between safe and unsafe use of technology? How do we avoid being unsafe? **Create Programs** Can you identify and debug bugs in an algorithm?	**Develop Programs** Can you independently develop specific variables to create a defined goal using Scratch? Can you identify ways of improving future programming?	**Using Programs** Can you add and order information in spreadsheet software? Can you use graphs and charts to present the data in ways that are easy to understand?
Year 6	**Safe Use** Are we aware of some of the dangers of using technology? **Create Programs** Can you write instructions that combine multiple attributes (moving/spinning/sounds etc.)?	**Develop Programs** Can you create a sequenced programme that has variables and repetition identified? Can you use two-way selection (if/then etc.)?	**Using Programs** Can you find averages of your own sets of data, when entered into spreadsheet software?